# Volume 3

# **Building-Specific SPCC Plan**

Fort Carson, Colorado



# Bldg 1014 – 7804

Prepared by



Shaw Environmental, Inc. 5050 Section Avenue Cincinnati, OH 45212 ATTACHMENT 1 BUILDING 1014

## 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 1014.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the DOIM.

# 1.3 FUNCTION OF BUILDING

The building is being used for auto data processing.

## 1.4 LOCATION OF BUILDING

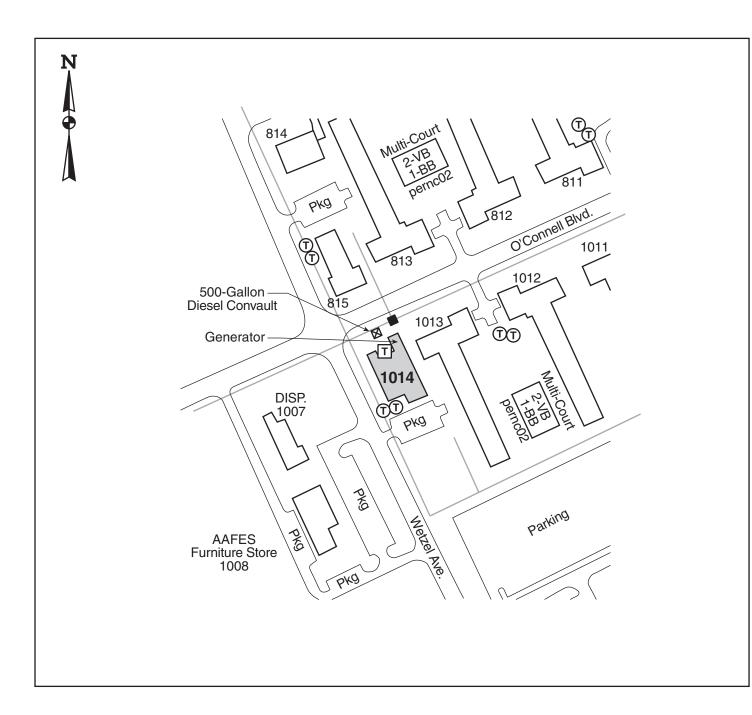
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the DOIM.

# 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 1014 Commo Center Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map

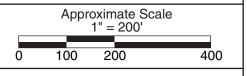


T Pole-Mounted Transformer

T Pad-Mounted Transformer

Storm Drain

— Storm Sewer Line



January 2004

2.0 INVENTORY

# 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

Aboveground Storage Tank

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

# 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Hazardous substances are not stored at this building. POL stored in this building include:

Diesel

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

# Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow	
AST No. 001	Diesel	Rupture	500	500	Northeast	
AST No. 001	Diesel	Tank Overflow	25	25	Northeast	
AST No. 001	Diesel	Leakage	100	< 1	Northeast	

# 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

Aboveground Storage Tank......Convault

# 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

# 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

# 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

# **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

# **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UN	NIT:	<b>!</b>		
DA	ATE	/TIME:		PHONE:
1.	The	e following information	n is needed in the even	at of a POL or Hazardous Substance Spill:
	A.	Name and phone num	nber of person discove	ering spill
	В.	Date and Time spill of	occurred	/
	C.	Location of Spill		
	D.	Type of material spil	led	
	E.	Estimated Quantity of	of material spilled (Gal	lons)
	F.	Cause of spill		
	G.	Affected resources or	r facilities	
	H.	Did spilled material of	enter any Drains or Di	tches? Yes No
	I.		• 1	ed soil, dry sweep and/or other clean-up materials
	J.	Description of clean-	up or other remedial a	ection taken
2.			<u>e</u>	o, or covering more than 100 square feet, and/or any led to the Fort Carson, Fire Department at 911.
3.	Th	e DECAM POC for th	is report and clearance	e is at
FC	' for	m 1200		

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# **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

ATTACHMENT 1 BUILDING 1382

### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 1382.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the 43rd ASG.

# 1.3 FUNCTION OF BUILDING

The building is being used as a vehicle maintenance shop.

## 1.4 LOCATION OF BUILDING

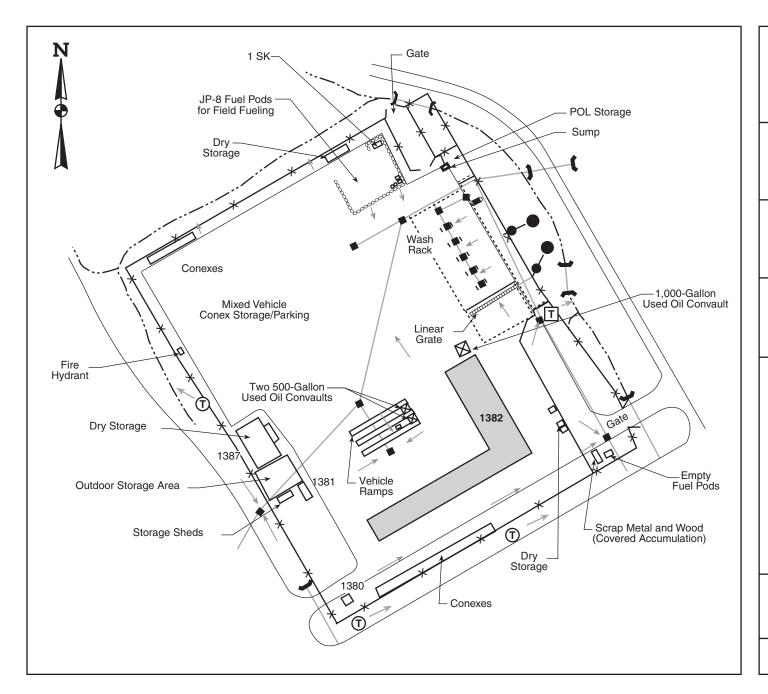
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the 43rd ASG.

### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 1382 43rd ASG Vehicle Maintenance Shop Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

FSL Flammable Storage Locker

SK Spill Kit

X X Fence

▼ Tank Location

7) Pole-Mounted Transformer

Pad-Mounted Transformer

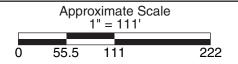
Storm Drain

---- Drainage Ditch/Culvert

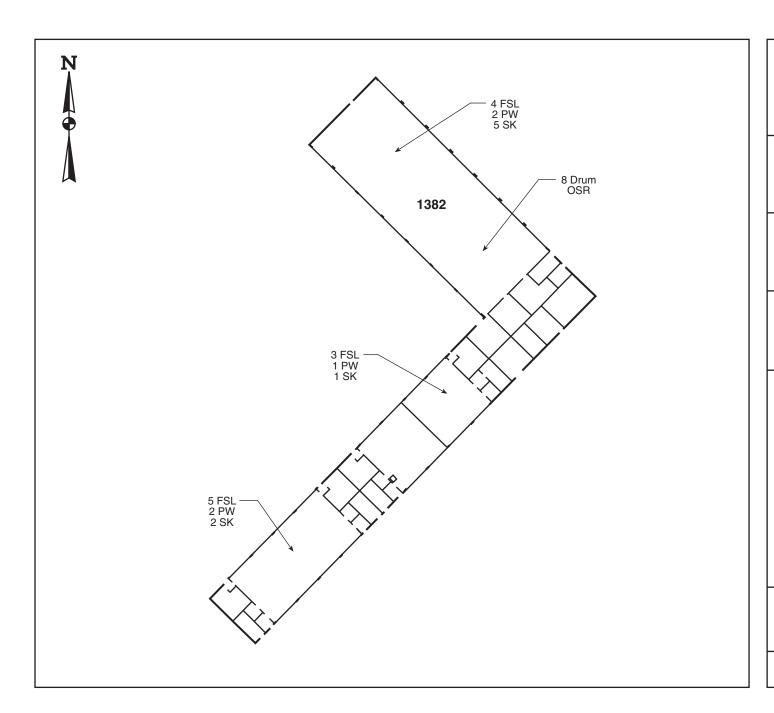
Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 1382 43rd ASG Vehicle Maintenance Shop Fort Carson, CO

# Hazardous Materials Inventory

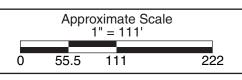
# Storage Location Map



OSR Oil Storage Rack PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility
- Battery Storage Area
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

# 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the building are presented in List 2-1. The POL stored in this building is:

Used Oil

# 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	West
AST No. 001	Used Oil	Tank Overflow	25	25	West
AST No. 001	Used Oil	Leakage	100	< 1	West
AST No. 002	Used Oil	Rupture	500	500	Northwest
AST No. 002	Used Oil	Tank Overflow	5	5	Northwest
AST No. 002	Used Oil	Leakage	100	< 1	Northwest
AST No. 003	Used Oil	Rupture	500	500	Northwest
AST No. 003	Used Oil	Tank Overflow	5	5	Northwest
AST No. 003	Used Oil	Leakage	100	<1	Northwest
Mobile Storage	JP-8	Rupture	100-200	100-200	Southwest
Mobile Storage	JP-8	Tank Overflow	25	25	Southwest
Mobile Storage	JP-8	Leakage	25	< 1	Southwest
Mobile Storage	JP-8	Rupture	300	300	Southwest
Mobile Storage	JP-8	Tank Overflow	25	25	Southwest
Mobile Storage	JP-8	Leakage	25	< 1	Southwest
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	<1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	< 1	Not Applicable
Battery Storage	Hazardous Substance	Rupture	5	5	Not Applicable
Battery Storage	Hazardous Substance	Leakage	1	< 1	Not Applicable

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# Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Storage Areas	Hazardous Substance	Leakage	1	<1	Not Applicable
Storage Areas	POL	Rupture	55	55	Not Applicable
Storage Areas	POL	Leakage	1	<1	Not Applicable
Storage Areas	POL	Rupture	5	5	Not Applicable
Storage Areas	POL	Leakage	1	< 1	Not Applicable
Outdoor Storage	POL	Rupture	5	5	South
Outdoor Storage	POL	Leakage	1	<1	South

# LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson 10TH CSH POL Activity Authorized Use List



NS]	N / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001178791	LUBRICATING OIL,ENG	PT	(1.00 PT CN )	2	2	36
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	2	6	36
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	1	4X
804	009023871	ADHESIVE	КТ	(1.00 EA TU )	1	1	2B
685	009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	6	6	36
915	010546453	CLEANER.LUBRICANT A	РТ	(1.00 PT CN )	1	1	36
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	1	1	36
915	011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	10	10	36
915	013534799	HYDRAULIC FLUID.AUT	QT	(1.00 QT CN )	12	12	36
915	014386076	LUBRICATING OIL,ENG	QТ	(1.00 QT CN )	12	12	36
91.	14386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	2	36
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	6	6	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	3	3	36
793	01GL00002	GLASS CLEANER, ECOLAB	EA	(2.50 GL CO )	3	0	2E
793	01GL00003	DETERGENT BATHROOM,ECOLAB	EA	(2.50 GL CO )	3	0	2E.
793	01GL00004	DEODORIZER,ECOLAB	EA	(2.50 GL CO )	3	0	2E
793	01GL00005	DETERGENT GENERAL	EA	(2.50 GL CO )	3	0	2E
303	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	1	1	4X
352	01GL00009	HAND CLEANER,ECOLAB	EA	(450.ML CO )	6	0	2E
793	01GL00020	CLEANER,FLOOR PACKETS	EA	(45.0 OZ CN )	3	0	2E
793	01GL00028	GLASS CLEANER	вт	(16.0 OZ BT )	3	0	2E



# Fort Carson 984TH MP POL Activity Authorized Use List



NS	N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	0	1	36
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	0	4	36
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	6	4X
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	10	12	36
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	1	2	36
264	00GL00034	BONDING COMPOUND.TIRE	CN	(1.00 PT CN )	0	1	9K
291	00GL00073	CYLINDER, ENGINE STARTING	EA	(20.0 OZ CT )	0	1	9K
915	010355392	LUBRICATING OIL,GEA	QТ	(1.00 QT CN )	8	0	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	0	2	36
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	1	1	36
91	11977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	5	30	36
915	013534799	HYDRAULIC FLUID.AUT	QΤ	(1.00 QT CN )	5	48	36
915	014386076	LUBRICATING OIL.ENG	QT	(1.00 QT CN )	10	48	36
915	014386082	LUBRICATING OIL.ENG	CN	(5.00 GL CN )	0	4	36
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	2	0	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	0	4	36
803	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	2	4	4X
793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	0	1	2E
793	01GL00028	GLASS CLEANER	вт	(16.0 OZ BT )	0	12	2E



# Fort Carson 4TH PSB POL Activity Authorized Use List



NS	N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	2	2	36
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	4	2	4X
804	009023871	ADHESIVE	KT	(1.00 EA TU )	2	2	2 <del>B</del>
685	009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	6	6	36
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	2	2	36
915	010546453	CLEANER,LUBRICANT A	PT	(1.00 PT CN )	1	1	36
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	1	1	36
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	5	5	36
915	013534799	HYDRAULIC FLUID.AUT	QΤ	(1.00 QT CN )	12	12	36
915	014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	12	12	36
91	14386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	2	36
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	6	6	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	2	1	36
915	014607536	LUBRICATING OIL.ENG	CN	(5.00 GL CN )	2	2	36
793	01GL00002	GLASS CLEANER, ECOLAB	EA	(2.50 GL CO )	3	0	2E
793	01GL00003	DETERGENT BATHROOM,ECOLAB	EA	(2.50 GL CO )	3	0	2E
793	01GL00004	DEODORIZER,ECOLAB	EA	(2.50 GL CO )	3	0	2E
793	01GL00005	DETERGENT GENERAL	ĒA	(2.50 GL CO )	3	0	2E
803	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	1	1	4X
852	01GL00009	HAND CLEANER, ECOLAB	EA	(450.ML CO )	6	0	2E
793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	2	0	2E
793	01GL00020	CLEANER,FLOOR PACKETS	EA	(45.0 OZ CN )	2	0	2E
793	01GL00077	CLEANING COMPOUND, SOLVENT	EA	(32.0 OZ BT )	4	0	2E



# Fort Carson 59TH MP POL Activity Authorized Use List



NS	N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
685	001395297	RAIN REPELLENT, WIND	ВТ	(8.00 OZ BT )	1	0	36
915	002617899	PENETRATING OIL VV-P-	РТ	(1.00 PT CN )	1	2	36
801	002906983	ENAMEL, GLOSS WHITE	РТ	(1.00 PT CN )	1	0	4X
801	005825382	ENAMEL, FLAT BLACK	РТ	(1.00 PT CN )	1	0	4X
801	007219743	ENAMEL, RED	PT	(1.00 PT CN )	1	0	4X
801	007219744	ENAMEL, YELLOW	PT	(1.00 PT CN )	1	0	4X
801	007219754	LACQUER, GRAY	РТ	(1.00 PT CN )	1	0	4X
801	008489272	ENAMEL, LUSTERLESS OD	РТ	(1.00 PT CN )	1	0	4X
803	008490071	GASKET CEMENT	TU	(1.50 OZ TU )	4	2	4X
803	008893535	TAPE.ANTISEIZING	EA	(1.20 OZ SP )	4	1	4X
68:	)9262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	12	24	36
804	009386860	ADHESIVE	CN	(24.0 OZ CN )	1	0	2B
186	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	1	0	36
793	00GL00506	HAND SCRUBS	CN	(2.00 LB CN )	1	2	2E
915	010355392	LUBRICATING OIL.GEA	QТ	(1.00 QT CN )	24	0	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	0	2	36
915	011029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	1	2	36
915	011773988	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	6	12	36
915	011977689	GREASE.AUTOMOTIVE A	CN	(6.50 LB CN )	1	2	36
915	011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	4	10	36
915	013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	12	24	36
915	014386076	LUBRICATING OIL,ENG	QТ	(1.00 QT CN )	24	48	36
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	0	5	36
<del></del> 585	014413218	ANTIFREEZE	GL	(1.00 GL CN )	5	0	36
303	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	4	2	4X



# Fort Carson 59TH MP POL Activity Authorized Use List



Building #

1382

NSN / MCN	Nomenclature	U/I	<b>Unit Of Use</b>	GSL Qty	UBL Qty	Supply Class
793 01GL00010	CLEANING COMPOUND, SOLVENT	EA	(24.0 OZ BT )	1	0	2E
793 01GL00028	GLASS CLEANER	ВТ	(16.0 OZ BT )	1	0	2E
751 01GL00052	CORRECTION FLUID (WHITE-OUT)	EA	(0.50 OZ BT )	1	0	2E
793 01GL00508	FLOOR WAX,MOP AND BUFF	EA	(1.00 GL BT )	1	0	2E



# Fort Carson 759TH MP POL Activity Authorized Use List



NSN	I / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	0	1	36
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	2	4	36
681	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	0	36
803	008490071	GASKET CEMENT	TU	(1.50 OZ TU )	1	0	4X
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	6	4X
685	009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	12	12	36
186	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	1	2	36
264	00GL00034	BONDING COMPOUND.TIRE	CN	(1.00 PT CN )	1	1	9K
291	00GL00073	CYLINDER, ENGINE STARTING	EA	(20.0 OZ CT )	2	1	9К
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	1	2	36
91	11029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	1	1	36
915	011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	6	30	36
915	013534799	HYDRAULIC FLUID.AUT	QT	(1.00 QT CN )	12	48	36
915	014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	12	48	36
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	1	4	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	2	4	36
803	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	3	4	4X
793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	2	2	2E
793	01GL00028	GLASS CLEANER	ВТ	(16.0 OZ BT )	2	1	2E

# 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

# 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.

• Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

# 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

# **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

# **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UNIT:	
DATE/TIME:/ PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materi expended	als
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/o amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	•
3. The DECAM POC for this report and clearance is at	_
FC form 1200	

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# **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS			
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer

ATTACHMENT 1 BUILDING 1392

### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 1392.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the 43rd Area Support Group.

# 1.3 FUNCTION OF BUILDING

The building is being used as a motor pool.

## 1.4 LOCATION OF BUILDING

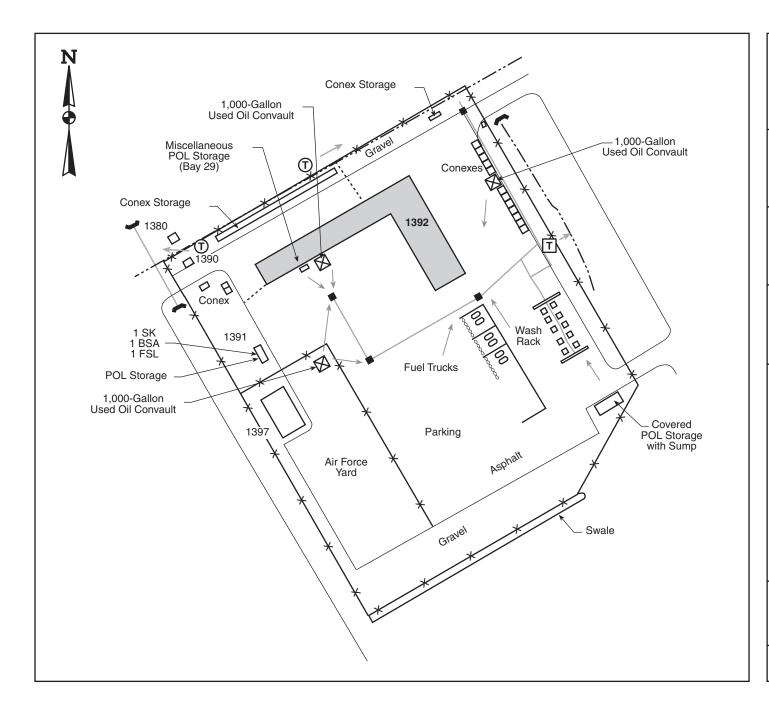
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the 43rd Area Support Group.

### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 1392 43rd ASG Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

# Storage Location Map



BSA Battery Storage Area

FSL Flammable Storage Locker

SK Spill Kit

X X Fence

T Pole-Mounted Transformer

T Pad-Mounted Transformer

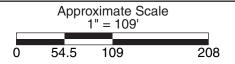
Storm Drain

---- Drainage Ditch/Culvert

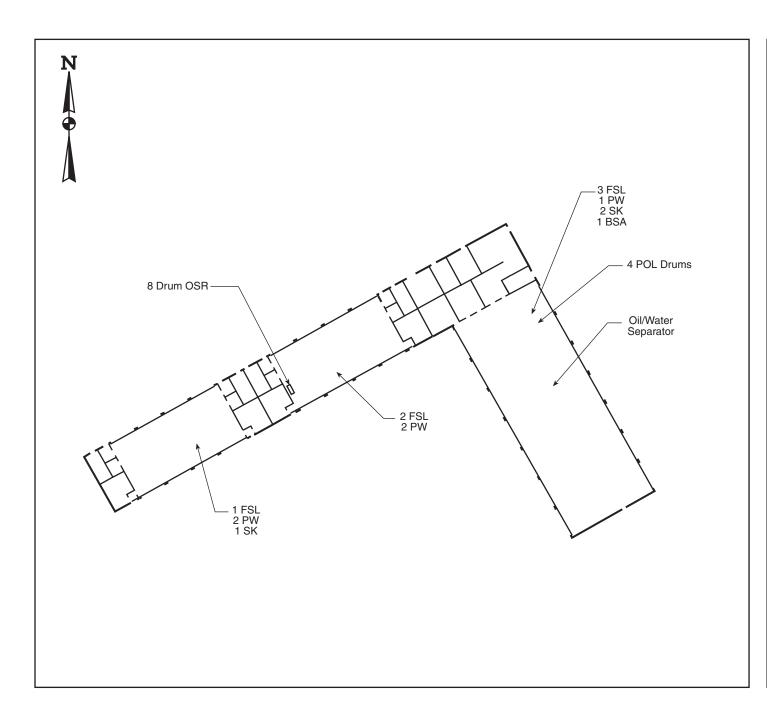
— Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 1392 43rd ASG Motor Pool Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



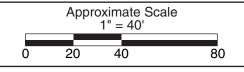
BSA Battery Storage Area

OSR Oil Storage Rack

PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility
- Battery Storage Areas

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the building are presented in List 2-1. POL stored in this building is:

Used Oil

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	East
AST No. 001	Used Oil	Tank Overflow	25	25	East
AST No. 001	Used Oil	Leakage	100	<1	East
AST No. 002	Used Oil	Rupture	1,000	1,000	South
AST No. 002	Used Oil	Tank Overflow	25	25	South
AST No. 002	Used Oil	Leakage	100	<1	South
AST No. 003	Used Oil	Rupture	1,000	1,000	Not Applicable
AST No. 003	Used Oil	Tank Overflow	25	25	Not Applicable
AST No. 003	Used Oil	Leakage	100	<1	Not Applicable
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	<1	Not Applicable
Battery Storage	Hazardous Substance	Rupture	35	5	Not Applicable
Battery Storage	Hazardous Substance	Leakage	1	<1	Not Applicable
Miscellaneous Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Miscellaneous Storage Areas	Hazardous Substance	Leakage	1	< 1	Not Applicable
OSR Storage Areas	POL	Rupture	55	55	Not Applicable
OSR Storage Area	POL	Leakage	1	<1	Not Applicable
Storage Areas	POL	Rupture	5	5	Not Applicable
Storage Areas	POL	Leakage	1	< 1	Not Applicable

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## Table 2-1 Spill Predictions

Potential Spill Source	Potential Spill Source Type of Substance		Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
Outdoor Storage Area	POL	Rupture	5	5	Not Applicable
Outdoor Storage Area	POL	Leakage	1	< 1	Not Applicable

## LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson HHC 43RD ASG POL Activity Authorized Use List



Building # 1392

NSN / MCN		Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	1	1	36
681	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	0	36
803	008490071	GASKET CEMENT	TU	(1.50 OZ TU )	1	1	4X
803	008893534	TAPE.ANTISEIZING	EA	(1.00 OZ SP )	0	5	4X
685	009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	10	10	36
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	1	0	36
291	00GL00073	CYLINDER, ENGINE STARTING	EA	(20.0 OZ CT )	1	1	9K
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	1	1	36
915	011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	1	1	36
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	5	2	36
91.	14386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	0	12	36
915	014386079	LUBRICATING OIL.ENG	DR	(55.0 GL DR )	1	0	36
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	0	1	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	0	2	36
803	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	0	1	4X



# Fort Carson 4TH FINANCE POL Activity Authorized Use List



Building # 1392

MCN	Nomenclature	UЛ	Unit Of Use	GSL Qty	UBL Qty	Supply Class
617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	1	0	36
i437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	1	36
574959	HYDRAULIC FLUID,AUT	CN	(5.00 GL CN )	0	1	36
490071	GASKET CEMENT	TU	(1.50 OZ TU )	1	1	4X
262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	10	10	36
GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	1	1	36
GL00073	CYLINDER, ENGINE STARTING	EA	(20.0 OZ CT )	1	0	9K
355392	LUBRICATING OIL,GEA	QΤ	(1.00 QT CN )	0	5	36
029455	BRAKE FLUID,AUTOMOT	GL	(1.00 GL CN )	1	1	36
977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	1	1	36
977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	5	0	36
386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	0	12	36
413218	ANTIFREEZE	GL	(1.00 GL CN )	0	5	36
	617899 437415 574959 490071 262275 6L00007 6L00073 355392 029455 977689 977693 386076	PENETRATING OIL VV-P- 437415 ALCOHOL DENATURED GR 574959 HYDRAULIC FLUID, AUT 490071 GASKET CEMENT 262275 CLEANING COMPOUND WIN 5L00007 DISTILLED-DEIONIZED 5L00073 CYLINDER, ENGINE STARTING 2355392 LUBRICATING OIL, GEA 6029455 BRAKE FLUID, AUTOMOT 6977689 GREASE, AUTOMOTIVE A 6977693 GREASE, AUTOMOTIVE A 6977693 GREASE, AUTOMOTIVE A 6386076 LUBRICATING OIL, ENG	PENETRATING OIL VV-P-PT  437415 ALCOHOL DENATURED GR GL  574959 HYDRAULIC FLUID,AUT CN  490071 GASKET CEMENT TU  262275 CLEANING COMPOUND WIN PT  5L00007 DISTILLED-DEIONIZED EA  5L00073 CYLINDER,ENGINE STARTING EA  355392 LUBRICATING OIL,GEA OT  977689 GREASE,AUTOMOTIVE A CN  977693 GREASE,AUTOMOTIVE A CA  386076 LUBRICATING OIL,ENG QT	617899 PENETRATING OIL VV-P- PT (1.00 PT CN ) 437415 ALCOHOL DENATURED GR GL (1.00 GL CN ) 574959 HYDRAULIC FLUID,AUT CN (5.00 GL CN ) 490071 GASKET CEMENT TU (1.50 OZ TU ) 262275 CLEANING COMPOUND WIN PT (1.00 PT BT ) 5L00007 DISTILLED-DEIONIZED EA (1.00 GL BT ) 5L00073 CYLINDER,ENGINE STARTING EA (20.0 OZ CT ) 3555392 LUBRICATING OIL,GEA OT (1.00 QT CN ) 6029455 BRAKE FLUID,AUTOMOT GL (1.00 GL CN ) 6077689 GREASE,AUTOMOTIVE A CN (6.50 LB CN ) 6077693 GREASE,AUTOMOTIVE A CA (14.0 OZ CT ) 60386076 LUBRICATING OIL,ENG OT (1.00 QT CN )	PENETRATING OIL VV-P-	617899 PENETRATING OIL VV-P- PT (1.00 PT CN ) 1 0 437415 ALCOHOL DENATURED GR GL (1.00 GL CN ) 1 1 574959 HYDRAULIC FLUID,AUT CN (5.00 GL CN ) 0 1 490071 GASKET CEMENT TU (1.50 OZ TU ) 1 1 262275 CLEANING COMPOUND WIN PT (1.00 PT BT ) 10 10 EL00007 DISTILLED-DEIONIZED EA (1.00 GL BT ) 1 1 EL00073 CYLINDER,ENGINE STARTING EA (20.0 OZ CT ) 1 0 355392 LUBRICATING OIL,GEA OT (1.00 QT CN ) 0 5 029455 BRAKE FLUID,AUTOMOT GL (1.00 GL CN ) 1 1 977689 GREASE,AUTOMOTIVE A CN (6.50 LB CN ) 1 1 977693 GREASE,AUTOMOTIVE A CA (14.0 OZ CT ) 5 0 386076 LUBRICATING OIL,ENG QT (1.00 QT CN ) 0 12



# Fort Carson 60TH ORD POL Activity Authorized Use List



Building # 1392

NSN / MCN		Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	2	3	36
915	001912772	LUBOIL MIL-L-2104 OE/	DR	(55.0 GL DR )	1	0	36
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	1	0	36
186	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	1	36
291	006469727	CYLINDER.ENGINE STARTING	вх	(20.0 OZ CT )	2	2	9К
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	1	4X
804	009023871	ADHESIVE	KT	(1.00 EA TU )	1	1	2B
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	12	12	36
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	4	2	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	1	1	36
9 i	11029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	1	1	36
915	011977689	GREASE.AUTOMOTIVE A	CN	(6.50 LB CN )	1	2	36
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	10	10	36
915	014386076	LUBRICATING OIL,ENG	QТ	(1.00 QT CN )	12	12	36
915	014386079	LUBRICATING OIL,ENG	DR	(55.0 GL DR )	1	0	36
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	4	36
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	6	6	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	2	2	36
793	01GL00002	GLASS CLEANER, ECOLAB	EA	(2.50 GL CO )	3	0	2E
793	01GL00003	DETERGENT BATHROOM,ECOLAB	EA	(2.50 GL CO )	3	0	2E
793	01GL00004	DEODORIZER,ECOLAB	EA	(2.50 GL CO )	3	0	2E
793	01GL00005	DETERGENT GENERAL	EA	(2.50 GL CO )	3	0	2E
803	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	1	1	4X
<del></del> 852	01GL00009	HAND CLEANER,ECOLAB	EA	(450.ML CO )	6	0	2E
793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	2	0	2E

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

## 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

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In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

## **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:
DATE/TIME: PHONE:
1. The following information is needed in the event of a POL or Hazardous Substance Spill:
A. Name and phone number of person discovering spill
B. Date and Time spill occurred/
C. Location of Spill
D. Type of material spilled
E. Estimated Quantity of material spilled (Gallons)
F. Cause of spill
G. Affected resources or facilities
H. Did spilled material enter any Drains or Ditches? Yes No
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended
J. Description of clean-up or other remedial action taken
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or a amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.
3. The DECAM POC for this report and clearance is at
FC form 1200

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## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

ATTACHMENT 1 BUILDING 1399

## 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 1399.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by an industrial pump station.

## 1.3 FUNCTION OF BUILDING

The building is being used as a pump station.

## 1.4 LOCATION OF BUILDING

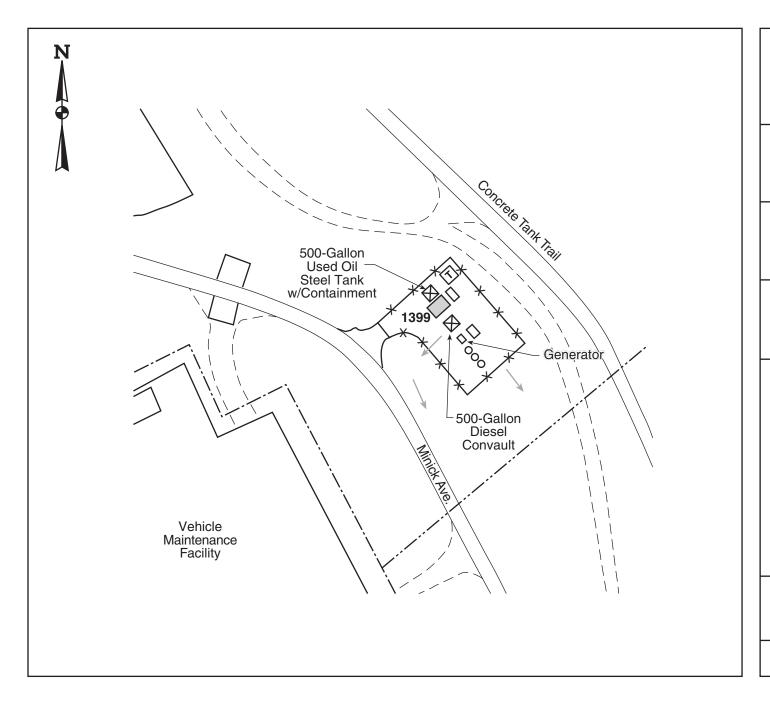
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the DPW.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 1399 Pump Station Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map

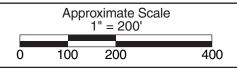


X X Fence

Pad-Mounted Transformer

— --- Drainage Ditch/Culvert

Direction of Flow



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2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

Aboveground Storage Tank

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Hazardous substances are not stored in this building. POL stored at this building include:

- Diesel
- Used Oil

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	No. 001 Diesel		100	100	Southeast
AST No. 001	Diesel	Tank Overflow	25	25	Southeast
AST No. 001	Diesel	Leakage	100	< 1	Southeast
AST No. 002	Used Oil	Rupture	250	250	Southeast
AST No. 002	Used Oil	Tank Overflow	25	25	Southeast
AST No. 002	Used Oil	Leakage	100	< 1	Southeast

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

Aboveground Storage Tank......Convault

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment is present on two of the three aboveground storage tanks present at this building.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

## **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:
DATE/TIME: PHONE:
1. The following information is needed in the event of a POL or Hazardous Substance Spill:
A. Name and phone number of person discovering spill
B. Date and Time spill occurred/
C. Location of Spill
D. Type of material spilled
E. Estimated Quantity of material spilled (Gallons)
F. Cause of spill
G. Affected resources or facilities
H. Did spilled material enter any Drains or Ditches? Yes No
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended
J. Description of clean-up or other remedial action taken
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or any amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.
3. The DECAM POC for this report and clearance is at
FC form 1200

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## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer			

ATTACHMENT 1 BUILDING 1430

## 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 1430.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the Post Headquarters.

## 1.3 FUNCTION OF BUILDING

The building is being used for headquarters.

## 1.4 LOCATION OF BUILDING

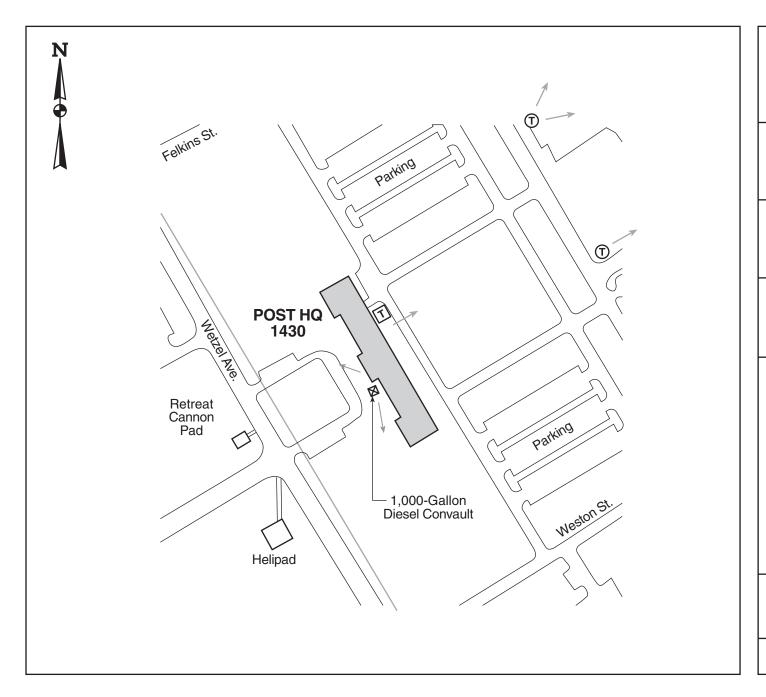
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the Post Headquarters.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 1430 Post Headquarters Fort Carson, CO

## Hazardous Materials Inventory

# Storage Location Map



Shaw™ Shaw Environmental, Inc.

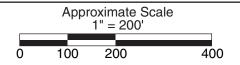
Tank Location

Pole-Mounted Transformer

Pad-Mounted Transformer

Storm Sewer Line

Direction of Flow



January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

Aboveground Storage Tank

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Hazardous substances are not stored at this building. POL stored at this building includes:

Diesel

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source Type of Substance		Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Diesel	Rupture	1,000	1,000	North
AST No. 001	Diesel	Tank Overflow	25	25	North
AST No. 001	Diesel	Leakage	100	< 1	North

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

Aboveground Storage Tank......Convault

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UNIT:	
DATE/TIME:/ PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materi- expended	als
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	•
3. The DECAM POC for this report and clearance is at	_
FC form 1200	

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## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS					
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer		

ATTACHMENT 1 BUILDING 1515

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 1515.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the Exchange Service Station.

#### 1.3 FUNCTION OF BUILDING

The building is being used as a service station.

#### 1.4 LOCATION OF BUILDING

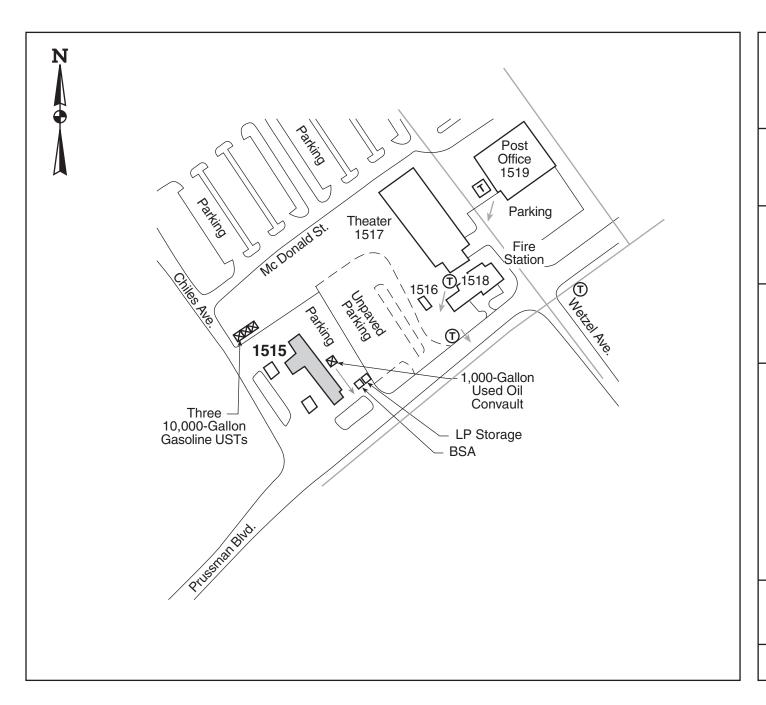
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for Exchange Service Station.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 1515 PX Gas Station Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



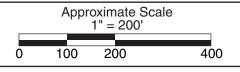
BSA Battery Storage Area

Pole-Mounted Transformer

Pad-Mounted Transformer

Storm Sewer Line

Direction of Flow



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Underground Storage Tanks

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Hazardous substances are not stored at this building. POL stored at this building include:

- Gasoline
- Used Oil

### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
UST No. 001	Gasoline	Rupture	10,000	10,000	South
UST No. 001	Gasoline	Tank Overflow	25	25	South
UST No. 001	Gasoline	Leakage	100	<1	South
UST No. 002	Gasoline	Rupture	10,000	10,000	South
UST No. 002	Gasoline	Tank Overflow	25	25	South
UST No. 002	Gasoline	Leakage	100	< 1	South
UST No. 003	Gasoline	Rupture	10,000	10,000	South
UST No. 003	Gasoline	Tank Overflow	25	25	South
UST No. 003	Gasoline	Leakage	100	< 1	South
AST No. 001	Used Oil	Rupture	1,000	1,000	East
AST No. 001	Used Oil	Tank Overflow	25	25	East
AST No. 001	Used Oil	Leakage	100	<1	East

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

- Aboveground Storage Tank
   Convault
- Underground Storage Tanks......Not Applicable

### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UN	IT: _		
DA'	TE/	/TIME:/	PHONE:
1. 7	Γhe :	e following information is needed in the event of	of a POL or Hazardous Substance Spill:
	A.	Name and phone number of person discovering	ng spill
	B.	Date and Time spill occurred	/
	C.	Location of Spill	
	D.	Type of material spilled	
	E.	Estimated Quantity of material spilled (Gallon	ns)
	F.	Cause of spill	
	G.	Affected resources or facilities	
	H.	Did spilled material enter any Drains or Ditch	nes? Yes No
		Estimated quantity and type of contaminated expended	soil, dry sweep and/or other clean-up materials
	J.	Description of clean-up or other remedial acti	on taken
		W FC 200-1 all spills of more than 5 gallons, on a drain or ditch must be reported	r covering more than 100 square feet, and/or any to the Fort Carson, Fire Department at 911.
3.	The	ne DECAM POC for this report and clearance is	s at
FC ·	forn	m 1200	

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## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS					
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer		

ATTACHMENT 1 BUILDING 1551

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 1551.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the Directorate of Information Management.

#### 1.3 FUNCTION OF BUILDING

The building is being used for information management.

#### 1.4 LOCATION OF BUILDING

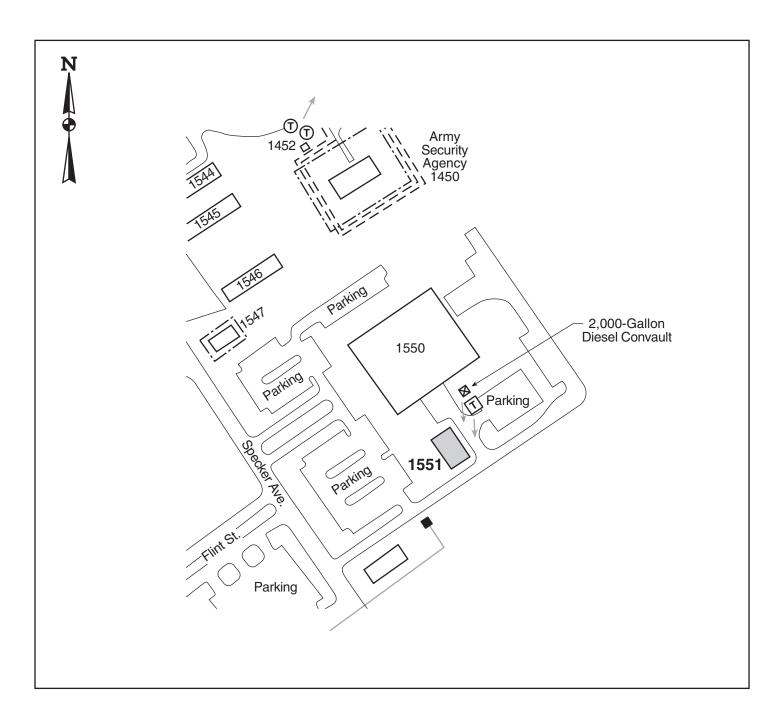
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the Directorate of Information Management.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



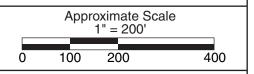
Building 1551 Information Systems Facility Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



- T Pole-Mounted Transformer
- T Pad-Mounted Transformer
- Storm Drain
- ---- Drainage Ditch/Culvert
- —— Storm Sewer Line
- Direction of Flow



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

• Aboveground Storage Tank

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Hazardous substances are not stored at this building. POL stored at this building include:

Diesel

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

# Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow	
AST No. 001	Diesel	Rupture	2,000	2,000	Southeast	
AST No. 001	Diesel	Tank Overflow	25	25	Southeast	
AST No. 001	Diesel	Leakage	100	< 1	Southeast	

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

Aboveground Storage Tank......Convault

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UNIT:	
DATE/TIME:/ PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materi- expended	als
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	•
3. The DECAM POC for this report and clearance is at	_
FC form 1200	

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## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS					
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer		

ATTACHMENT 1 BUILDING 1682

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 1682.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the Base Operations Contractor.

#### 1.3 FUNCTION OF BUILDING

The building is being used as a motor pool.

#### 1.4 LOCATION OF BUILDING

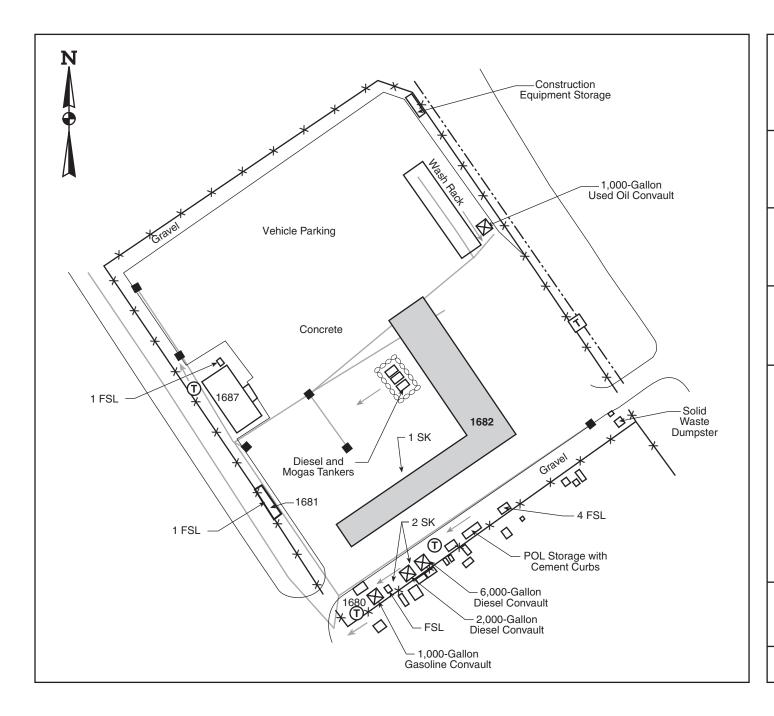
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL spill prevention at this building is the Environmental Protection Officer (EPO) for the Base Operations Contractor.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL storage in and around the building, are provided in the pages following Section 1.0.



Building 1682
Base Operations Contractor
Maintenance Facility
Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

FSL Flammable Storage Locker

SK Spill Kit

X X Fence

▼ Tank Location

D Pole-Mounted Transformer

T Pad-Mounted Transformer

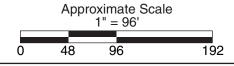
Storm Drain

---- Drainage Ditch/Culvert

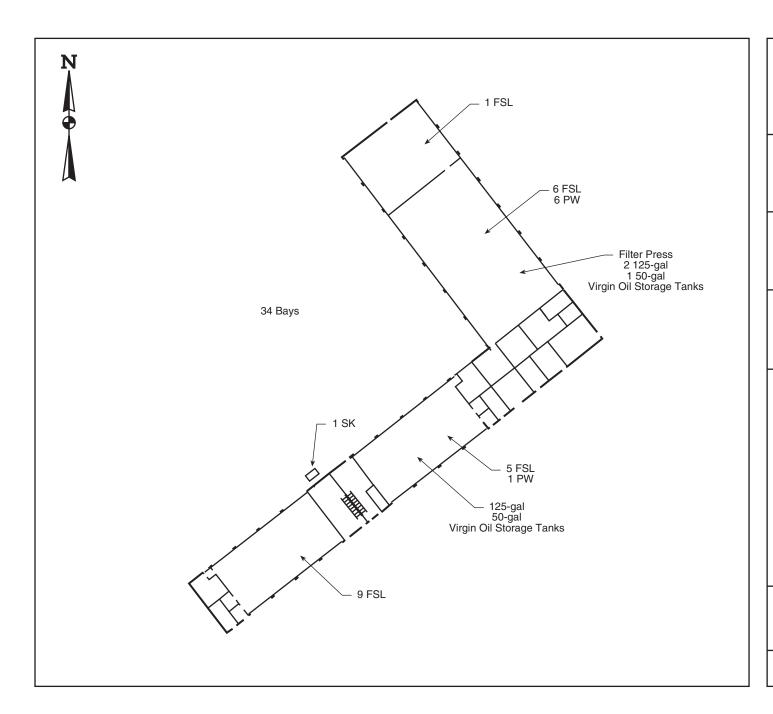
—— Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 1682
Base Operations Contractor
Maintenance Facility
Fort Carson, CO

# Hazardous Materials Inventory

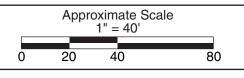
# Storage Location Map



PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

No significant quantities of hazardous substances are stored at the building, and no materials inventory is available. The POL stored at this building is:

- Diesel
- Fuel Oil
- Gasoline

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Diesel	Rupture	6,000	6,000	Southwest
AST No. 001	Diesel	Tank Overflow	25	25	Southwest
AST No. 001	Diesel	Leakage	100	<1	Southwest
AST No. 002	Used Oil	Rupture	1,000	1,000	Southeast
AST No. 002	Used Oil	Tank Overflow	25	25	Southeast
AST No. 002	Used Oil	Leakage	100	<1	Southeast
Mobile Storage	Gasoline	Rupture	300	300	Southwest
Mobile Storage	Gasoline	Tank Overflow	25	25	Southwest
Mobile Storage	Gasoline	Leakage	25	<1	Southwest
Mobile Storage	Diesel	Rupture	400	400	Southwest
Mobile Storage	Diesel	Tank Overflow	25	25	Southwest
Mobile Storage	Diesel	Leakage	25	<1	Southwest
Mobile Storage	Diesel	Rupture	500	500	Southwest
Mobile Storage	Diesel	Tank Overflow	25	25	Southwest
Mobile Storage	Diesel	Leakage	25	<1	Southwest
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	<1	Not Applicable
Miscellaneous Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Miscellaneous Storage Areas	Hazardous Substance	Leakage	1	<1	Not Applicable

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## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
Storage Areas	POL	Rupture	5	5	Not Applicable
Storage Areas	POL	Leakage	1	< 1	Not Applicable
Outdoor Storage	POL	Rupture	5	5	
Outdoor Storage	POL	Leakage	1	< 1	

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

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In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

The following spill has been reported from this facility:

<u>Date</u>	Substance	Quantity	Waterway Affected	<u>Cause</u>	Corrective <u>Action</u>	Actions to Prevent Recurrence
07/14/98	JP-8	25 gallons	None	Leaking valve	Clean Up	Increased awareness; conduct regular valve inspections

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UNIT:	
DATE/TIME: PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up mater expended	ials
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/o amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911	•
3. The DECAM POC for this report and clearance is at	_
FC form 1200	

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### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer
			ī

ATTACHMENT 1 BUILDING 1692

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 1692.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the 4th Engineer Battalion.

#### 1.3 FUNCTION OF BUILDING

The building is being used as a motor pool.

#### 1.4 LOCATION OF BUILDING

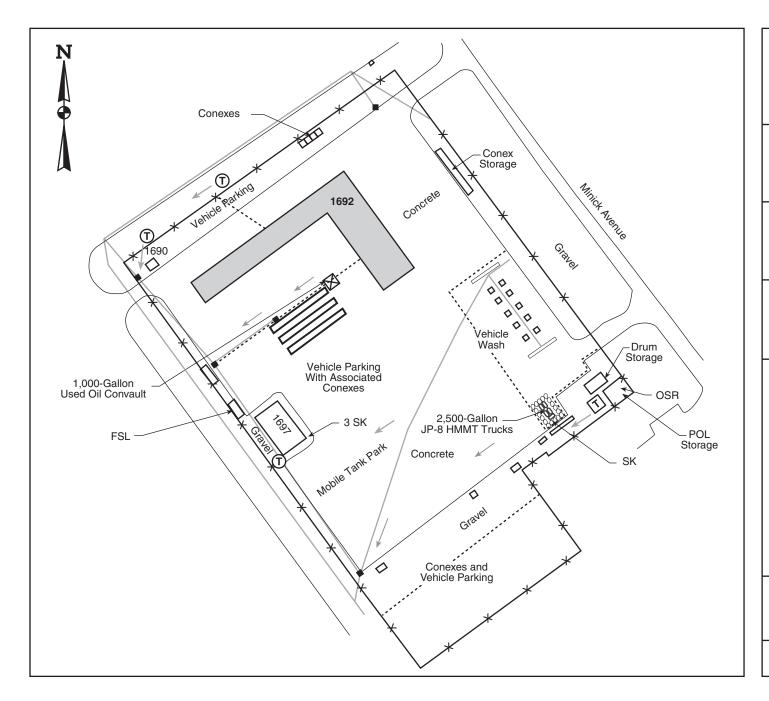
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the 4th Engineer Battalion.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 1692 4th Engineers Motor Pool Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

OSR Oil Storage Rack

FSL Flammable Storage Locker

SK Spill Kit

X X Fence

D Pole-Mounted Transformer

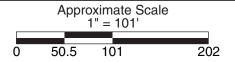
Pad-Mounted Transformer

Storm Drain

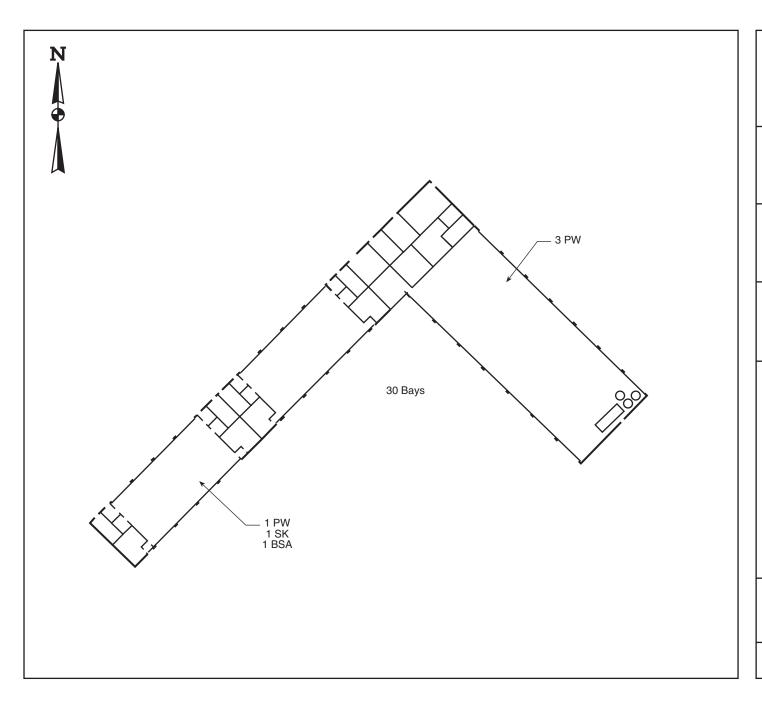
— Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 1692 4th Engineers Motor Pool Fort Carson, CO

# Hazardous Materials Inventory

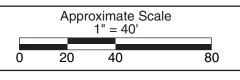
# Storage Location Map



BSA Battery Storage Area

PW Parts Washer

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tank
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility
- Battery Storage Area
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the building are presented in List 2-1. POL stored at this building include:

- Used Oil
- JP-8

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	Southwest
AST No. 001	Used Oil	Tank Overflow	25	25	Southwest
AST No. 001	Used Oil	Leakage	100	<1	Southwest
Mobile Storage	JP-8	Rupture	2,500	2,500	Southwest
Mobile Storage	JP-8	Tank Overflow	25	25	Southwest
Mobile Storage	JP-8	Leakage	100	<1	Southwest
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	<1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	<1	Not Applicable
Battery Storage	Hazardous Substance	Rupture	5	5	Not Applicable
Battery Storage	Hazardous Substance	Leakage	1	<1	Not Applicable
Miscellaneous Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Miscellaneous Storage Areas	Hazardous Substance	Leakage	1	<1	Not Applicable
Storage Areas	Hazardous Substance	Rupture	55	55	Not Applicable
Storage Areas	Hazardous Substance	Leakage	1	<1	Not Applicable
OSR Storage Areas	POL	Rupture	55	55	Not Applicable
OSR Storage Areas	POL	Leakage	1	< 1	Not Applicable
Storage Areas	POL	Rupture	5	5	Not Applicable
Storage Areas	POL	Leakage	1	< 1	Not Applicable
Outdoor Storage	POL	Rupture	5	5	Southwest

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## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
Outdoor Storage	POL	Leakage	1	< 1	Southwest
Miscellaneous Storage Area	Hazardous Substance	Rupture	100	100	Not Applicable
Miscellaneous Storage Area	Hazardous Substance	Leakage	5	< 1	Not Applicable

## LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson HHC 4TH ENGINEER HEADQUART Activity Authorized Use List



Building # 1692

NS	N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001116256	HYDRAULIC FLUID.FIR	QТ	(1.00 QT CN )	12	24	36
915	001178791	LUBRICATING OIL.ENG	РТ	(1.00 PT CN )	1	0	36
915	001497432	HYDRAULIC FLUID.FIR	GL	(1.00 GL CN )	2	2	36
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	0	12	36
915	001912772	LUBOIL MIL-L-2104 OE/	DR	(55.0 GL DR )	1	0	36
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	2	1	36
683	005843041	PROPANE	EA	(14.1 OZ CY )	0	3	36
685	009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	12	12	36
915	009359807	HYDRAULIC FLUID PB PR	QT	(1.00 QT CN )	6	6	36
915	009359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	2	2	36
68	0GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	2	2	36
685	00GL00036	FUEL ENGINE PRIMER	CN	(11.0 OZ CN )	2	0	36
291	00GL00073	CYLINDER, ENGINE STARTING	EA	(20.0 OZ CT )	3	3	9K
915	010355392	LUBRICATING OIL,GEA	QT	(1.00 QT CN )	2	2	36
915	010536688	CLEANER.LUBRICANT A	GL	(1.00 GL CN )	ſ	1	36
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	2	2	36
915	011580462	HYDRAULIC FLUID,FIR	DR	(55.0 GL DR )	1	0	36
915	011773988	LUBRICATING OIL.ENG	QT	(1.00 QT CN )	12	12	36
915	011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	2	2	36
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	20	30	36
)15	013534799	HYDRAULIC FLUID.AUT	QТ	(1.00 QT CN )	12	0	36
)15	014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	24	24	36
915	014386079	LUBRICATING OIL,ENG	DR	(55.0 GL DR )	1	0	36
)15	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	0	16	36
85	014413218	ANTIFREEZE	GL	(1.00 GL CN )	12	12	36



# Fort Carson HHC 4TH ENGINEER HEADQUART Activity Authorized Use List



Building #

1692

NSN / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty Supply Class	
685 014413221	ANTIFREEZE	СО	(5.00 GL CO )	0	20	36
685 014413223	ANTIFREEZE	DR	(55.0 GL DR )	1	0	36
915 014607526	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	6	10	36
915 014607536	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	3	36



# Fort Carson A CO 4TH ENGR POL Activity Authorized Use List



Building # 1692

NSN / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915 001116256	HYDRAULIC FLUID,FIR	QТ	(1.00 QT CN )	1	0	36
915 001178791	LUBRICATING OIL,ENG	РТ	(1.00 PT CN )	1	0	36
915 001497432	HYDRAULIC FLUID,FIR	GL	(1.00 GL CN )	1	0	36
915 001889858	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	1	0	36
915 002617899	PENETRATING OIL VV-P-	РТ	(1.00 PT CN )	1	0	36
685 009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	6	0	36
915 009359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	2	0	36
915 010355392	LUBRICATING OIL.GEA	QТ	(1.00 QT CN )	3	0	36
915 011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	1	0	36
915 011773988	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	3	0	36
91. 11977689	GREASE.AUTOMOTIVE A	CN	(6.50 LB CN )	1	0	36
915 011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	12	0	36
915 014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	0	36
685 014413218	ANTIFREEZE	GL	(1.00 GL CN )	3	0	36
685 014413221	ANTIFREEZE	СО	(5.00 GL CO )	2	0	36

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.

• Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UNIT:
DATE/TIME: PHONE:
1. The following information is needed in the event of a POL or Hazardous Substance Spill:
A. Name and phone number of person discovering spill
B. Date and Time spill occurred/
C. Location of Spill
D. Type of material spilled
E. Estimated Quantity of material spilled (Gallons)
F. Cause of spill
G. Affected resources or facilities
H. Did spilled material enter any Drains or Ditches? Yes No
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended
J. Description of clean-up or other remedial action taken
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or a amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.
3. The DECAM POC for this report and clearance is at
FC form 1200

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### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer			

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building numbers for which this plan has been developed are Building 1860 and 1864.

#### 1.2 CURRENT OCCUPANT

The buildings are currently occupied by the Department of Public Works (DPW).

#### 1.3 FUNCTION OF BUILDING

The buildings are being used for the HVAC system.

#### 1.4 LOCATION OF BUILDING

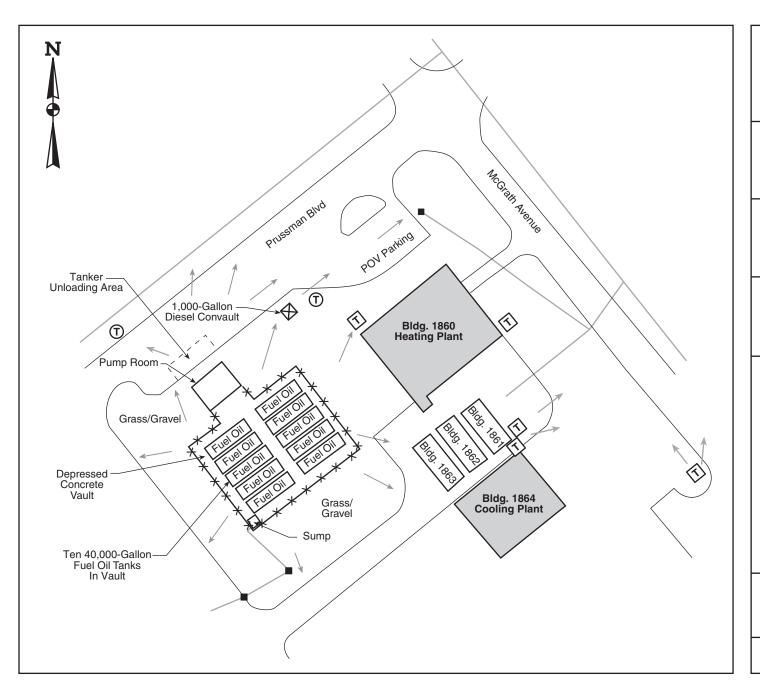
The buildings are located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at these buildings is the Environmental Protection Officer (EPO) for the DPW.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around the buildings, as well as the locations of POL storage in and around the buildings, are provided in the pages following Section 1.0.



Buildings 1860 and 1864 Heating/Cooling Plant Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

X X Fence

T) Pole-Mounted Transformer

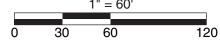
T Pad-Mounted Transformer

Storm Drain

— Storm Sewer Line

Direction of Flow

Approximate Scale 1" = 60'



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at these buildings that could potentially produce a significant spill of POL are:

Aboveground Storage Tanks

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

No hazardous substances are stored at these buildings. POL stored in the buildings include:

- Fuel Oil
- Diesel

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 001	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 001	Fuel Oil	Leakage	100	<1	NA (Sump)
AST No. 002	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 002	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 002	Fuel Oil	Leakage	100	<1	NA (Sump)
AST No. 003	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 003	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 003	Fuel Oil	Leakage	100	<1	NA (Sump)
AST No. 004	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 004	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 004	Fuel Oil	Leakage	100	<1	NA (Sump)
AST No. 005	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 005	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 005	Fuel Oil	Leakage	100	<1	NA (Sump)
AST No. 006	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 006	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 006	Fuel Oil	Leakage	100	<1	NA (Sump)
AST No. 007	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 007	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 007	Fuel Oil	Leakage	100	< 1	NA (Sump)

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Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 008	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 008	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 008	Fuel Oil	Leakage	100	<1	NA (Sump)
AST No. 009	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 009	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 009	Fuel Oil	Leakage	100	<1	NA (Sump)
AST No. 010	Fuel Oil	Rupture	40,000	40,000	NA (Sump)
AST No. 010	Fuel Oil	Tank Overflow	25	25	NA (Sump)
AST No. 010	Fuel Oil	Leakage	100	<1	NA (Sump)
AST No. 011	Diesel	Rupture	1,000	1,000	NA (Sump)
AST No. 011	Diesel	Tank Overflow	25	25	NA (Sump)
AST No. 011	Diesel	Leakage	100	< 1	NA (Sump)

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

- Aboveground Storage Tank (1)......Convault
- Aboveground Storage Tank (10)...... Depressed Concrete Vault

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:  DATE/TIME:/ PHONE:			
			1.
	A.	Name and phone number of person discovering spill	
	B.	Date and Time spill occurred/	
	C.	Location of Spill	
	D.	Type of material spilled	
	E.	Estimated Quantity of material spilled (Gallons)	
	F.	Cause of spill	
	G.	Affected resources or facilities	
	H.	Did spilled material enter any Drains or Ditches? Yes No	
	I.	Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended	
	J.	Description of clean-up or other remedial action taken	
2.	IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or any amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.		
3.	The	e DECAM POC for this report and clearance is at	
FC	for	n 1200	

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#### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS							
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building numbers for which this plan has been developed are Buildings 1881 and 1882.

#### 1.2 CURRENT OCCUPANT

The buildings are currently occupied by the 3/29 Artillery.

#### 1.3 FUNCTION OF BUILDING

The buildings are being used as a motor pool.

#### 1.4 LOCATION OF BUILDING

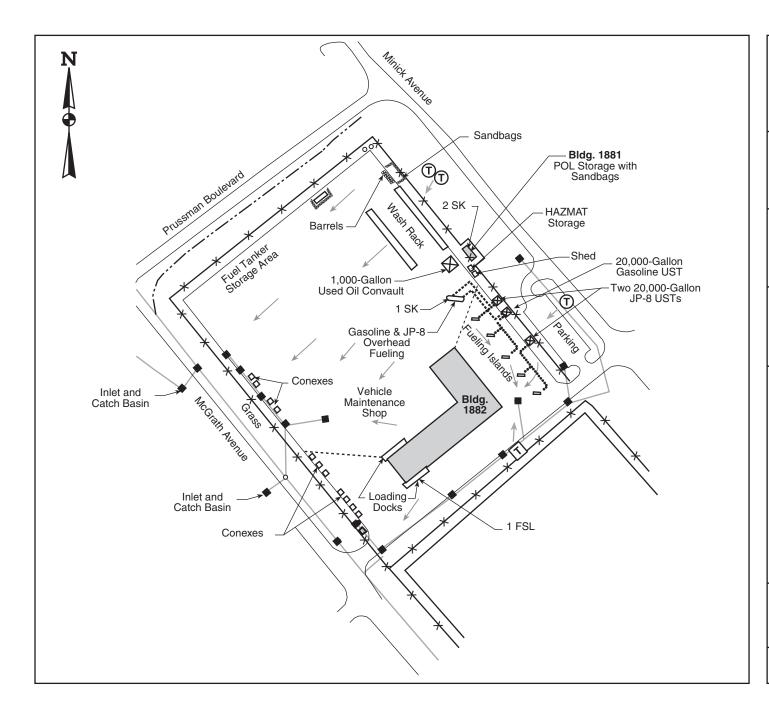
The buildings are located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at these buildings is the Environmental Protection Officer (EPO) for the 3/29 Artillery.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around these buildings, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Buildings 1881 and 1882 3/29 ARTY Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



FSL Flammable Storage Locker

SK Spill Kit

X X Fence

Pole-Mounted Transformer

T Pad-Mounted Transformer

Storm Drain

--- Drainage Ditch/Culvert

— Storm Sewer Line

Direction of Flow

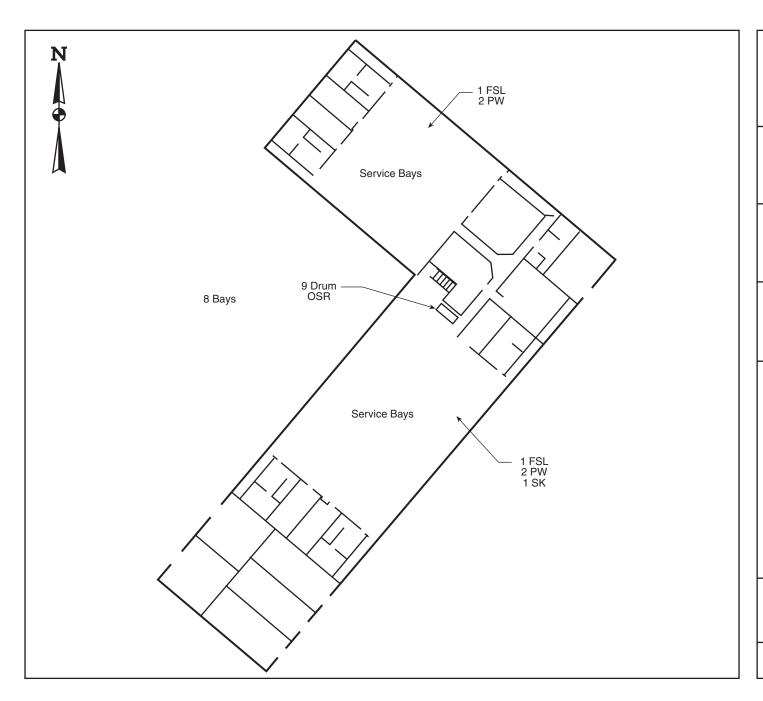
Sandbag Containment

·········· Underground Piping

······ Overhead Piping

Approximate Scale
1" = 130'
65 130 260

January 2004



Building 1882 3/29 ARTY Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

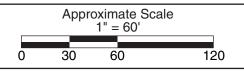
## Storage Location Map



OSR Oil Storage Rack PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at these buildings that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Underground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the buildings are presented in List 2-1. POL stored in these buildings include:

- Used Oil
- JP 8
- Gasoline

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
UST No. 001	JP - 8	Rupture	20,000	20,000	East
UST No. 001	JP - 8	Tank Overflow	25	25	East
UST No. 001	JP - 8	Leakage	100	< 1	East
UST No. 002	Gasoline	Rupture	20,000	20,000	East
UST No. 002	Gasoline	Tank Overflow	25	25	East
UST No. 002	Gasoline	Leakage	100	<1	East
UST No. 003	JP - 8	Rupture	20,000	20,000	East
UST No. 003	JP - 8	Tank Overflow	25	25	East
UST No. 003	JP - 8	Leakage	100	<1	East
AST No. 001	Used Oil	Rupture	1,000	1,000	Southwest
AST No. 001	Used Oil	Tank Overflow	25	25	Southwest
AST No. 001	Used Oil	Leakage	100	< 1	Southwest
Mobile Storage	JP-8	Rupture	2,500	2,500	Southwest
Mobile Storage	JP-8	Tank Overflow	25	25	Southwest
Mobile Storage	JP-8	Leakage	100	< 1	Southwest
Storage Areas	Hazardous Substance	Rupture	55	55	Not Applicable
Storage Areas	Hazardous Substance	Leakage	5	< 1	Not Applicable
Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Storage Areas	Hazardous Substance	Leakage	1	<1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	1	< 1	Not Applicable

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### Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
Storage Area	POL	Rupture	5	5	Not Applicable
Storage Area	POL	Leakage	1	< 1	Not Applicable
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Oil Storage Rack	POL	Rupture	55	55	Not Applicable
Oil Storage Rack	POL	Leakage	5	< 1	Not Applicable
Outdoor Storage	Hazardous Substance	Rupture	5	5	Southwest
Outdoor Storage	Hazardous Substance	Leakage	1	<1	Southwest

#### LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson 3/29 FA POL Activity Authorized Use List



Building # 1881

NS:	N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001116254	HYDRAULIC FLUID,FIR	GL	(1.00 GL CN )	4	12	36
915	001178791	LUBRICATING OIL,ENG	PT	(1.00 PT CN )	2	0	36
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	12	36	36
915	002234004	GREASE.MOLYBDENUM D	CN	(6.50 LB CN )	2	8	36
9 i 5	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	6	0	36
681	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	6	36
108	005825382	ENAMEL, FLAT BLACK	PT	(1.00 PT CN )	4	0	4X
683	005843041	PROPANE	EA	(14.1 OZ CY )	0	24	36
915	006574959	HYDRAULIC FLUID.AUT	CN	(5.00 GL CN )	1	2	36
801	008489272	ENAMEL, LUSTERLESS OD	РТ	(1.00 PT CN )	4	0	4X
80:	08490071	GASKET CEMENT	TU	(1.50 OZ TU )	2	0	4X
803	008893534	TAPE.ANTISEIZING	EA	(1.00 OZ SP )	1	12	4X
685	009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	36	48	36
915	009359807	HYDRAULIC FLUID PB PR	ОТ	(1.00 QT CN )	24	48	36
915	009359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	12	48	36
915	009857099	LUB OIL ATE MIL-L-236	QТ	(1.00 QT CN )	6	12	33
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	12	2	36
793	00GL00027	DETERGENT GENERAL	EA	(16.0 OZ BT )	12	0	2E
685	00GL00036	FUEL ENGINE PRIMER	CN	(11.0 OZ CN )	0	12	36
291	00GL00073	CYLINDER, ENGINE STARTING	EA	(20.0 OZ CT )	6	12	9K
915	010355392	LUBRICATING OIL,GEA	QТ	(1.00 QT CN )	12	48	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	3	6	36
915	010536688	CLEANER,LUBRICANT A	GL	(1.00 GL CN )	1	12	36
<del></del> 915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	2	6	36
915	011773988	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	48	48	36



## Fort Carson 3/29 FA POL Activity Authorized Use List



Building # 1881

NSN / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915 011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	4	12	36
915 011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	50	150	36
793 013425316	CLEANING COMPOUND,S	CN	(5.00 GL CN )	3	0	2E
915 013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	48	48	36
915 014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	48	60	36
915 014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	12	60	36
685 014413218	ANTIFREEZE	GL	(1.00 GL CN )	10	48	36
685 014413221	ANTIFREEZE	СО	(5.00 GL CO )	12	72	36
803 01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	2	6	4X
793 01GL00028	GLASS CLEANER	ВТ	(16.0 OZ BT )	12	48	2E
7						

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in these buildings (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

•	Aboveground Storage Tank	Convault
•	Underground Storage Tanks	
•	Indoor Maintenance Facility	Sorbent Materials
•	Storage Areas	Sorbent Materials
•	Outdoor Storage Areas	Sorbent Materials
•	Mobile Storage	Sorbent Materials

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in these buildings are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.

• Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

#### 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

The following spill has been reported at this facility:

<u>Date</u>	Substance	Quantity	Waterway Affected	Cause	Corrective <u>Action</u>	Actions to Prevent Recurrence
10/12/99	Hydraulic Oil	~ 5 gallons	None	Break in hydraulic line	Clean Up	Increased awareness; inspect lines more frequently

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



### **SPILL REPORT FORM**

UNIT:	
DATE/TIME: PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materi expended	als
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/o amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	
3. The DECAM POC for this report and clearance is at	_
FC form 1200	

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#### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS							
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer					

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado buildings for which this plan has been developed are Building 1981 and Building 1982.

#### 1.2 CURRENT OCCUPANT

The buildings are currently occupied by the 3rd BDE-HHC.

#### 1.3 FUNCTION OF BUILDING

The buildings are being used as a motor pool.

#### 1.4 LOCATION OF BUILDING

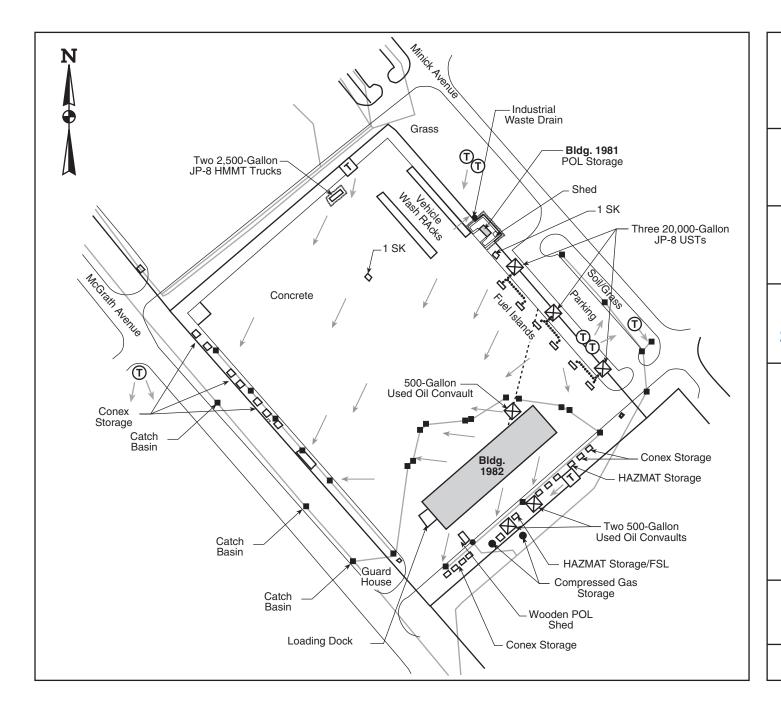
The buildings are located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at these buildings is the Environmental Protection Officer (EPO) for the 3rd BDE-HHC CO.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around these buildings, as well as the locations of POL and hazardous substance storage in and around the buildings, are provided in the pages following Section 1.0.



Buildings 1981 and 1982 3rd BCT-ADA CO Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



FSL Flammable Storage Locker

SK Spill Kit

Tank Location

Pole-Mounted Transformer

Pad-Mounted Transformer

Storm Drain

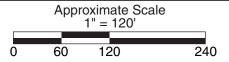
Drainage Ditch/Culvert

Storm Sewer Line

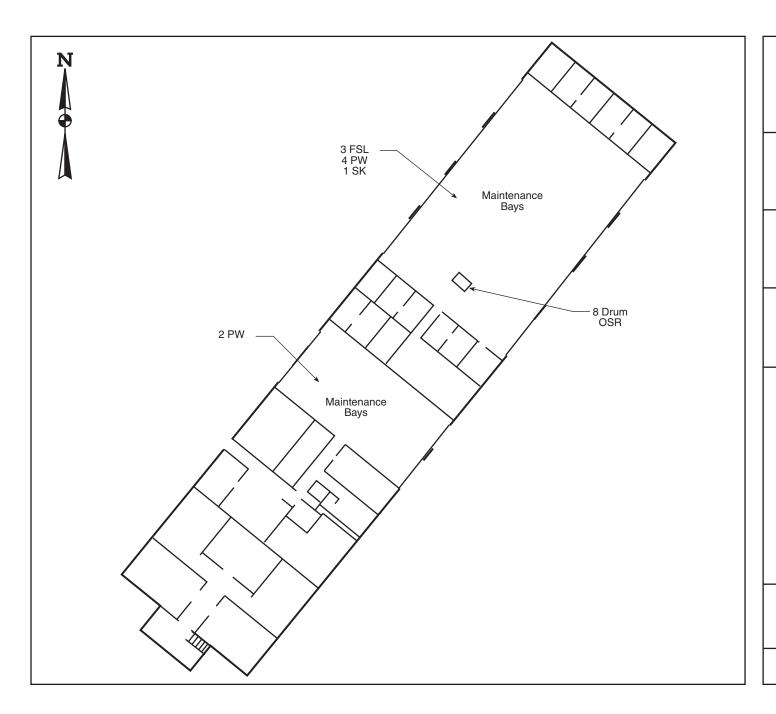
Direction of Flow

Sandbag Containment

**Underground Piping** 



January 2004



Building 1982 3rd BCT-ADA CO **Motor Pool** Fort Carson, CO

## **Hazardous Materials** Inventory

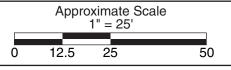
## Storage Location Map



OSR Oil Storage Rack Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at these buildings that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Underground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Storage Areas
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at these buildings are presented in List 2-1. The POL stored at the buildings is:

- Used Oil
- JP-8

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST 001	Used oil	Rupture	500	500	Southwest
AST 001	Used oil	Tank Overflow	25	25	Southwest
AST 001	Used oil	Leakage	100	<1	Southwest
AST 002	Used oil	Rupture	500	500	Southwest
AST 002	Used oil	Tank Overflow	25	25	Southwest
AST 002	Used oil	Leakage	100	< 1	Southwest
AST 003	Used oil	Rupture	500	500	Southwest
AST 003	Used oil	Tank Overflow	25	25	Southwest
AST 003	Used oil	Leakage	100	< 1	Southwest
UST 001	JP-8	Rupture	20,000	20,000	Not Applicable
UST 001	JP-8	Tank Overflow	25	25	Not Applicable
UST 001	JP-8	Leakage	100	100	Not Applicable
UST 002	JP-8	Rupture	20,000	20,000	Not Applicable
UST 002	JP-8	Tank Overflow	25	25	Not Applicable
UST 002	JP-8	Leakage	100	100	Not Applicable
UST 003	JP-8	Rupture	20,000	20,000	Not Applicable
UST 003	JP-8	Tank Overflow	25	25	Not Applicable
UST 003	JP-8	Leakage	100	100	Not Applicable
Mobile Storage	JP-8	Rupture	2,500	2,500	Southwest
Mobile Storage	JP-8	Tank Overflow	25	25	Southwest
Mobile Storage	JP-8	Leakage	100	<1	Southwest

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Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	< 1	Not Applicable
Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Storage Areas	Hazardous Substance	Leakage	1	<1	Not Applicable
Storage Areas	POL	Rupture	55	55	Not Applicable
Storage Areas	POL	Leakage	5	< 1	Not Applicable
Storage Areas	POL	Rupture	5	5	Not Applicable
Storage Areas	POL	Leakage	1	<1	Not Applicable
Outdoor Storage Area	Hazardous Substance	Rupture	5	5	Southwest
Outdoor Storage Area	Hazardous Substance	Leakage	1	<1	Southwest

#### LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson 534TH SIGNAL POL Activity Authorized Use List



Building # 1981

NSN / MCN		Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	1	1	36
291	006469727	CYLINDER, ENGINE STARTING	вх	(20.0 OZ CT )	1	1	9K
915	006574959	HYDRAULIC FLUID.AUT	CN	(5.00 GL CN )	1	1	36
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	1	4X
804	009023871	ADHESIVE	KT	(1.00 EA TU )	1	1	2B
685	009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	6	6	36
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	2	2	36
264	00GL00034	BONDING COMPOUND, TIRE	CN	(1.00 PT CN )	1	0	9K
685	00GL00036	FUEL ENGINE PRIMER	CN	(11.0 OZ CN )	1	1	36
915	010355392	LUBRICATING OIL,GEA	QΤ	(1.00 QT CN )	4	4	36
91	10355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	1	1	36
915	010536688	CLEANER,LUBRICANT A	GL	(1.00 GL CN )	1	1	36
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	1	1	36
803	011346513	CORROSION PREVENTIV	CN	(16.0 OZ CN )	1	1	4X
915	011773988	LUBRICATING OIL.ENG	QТ	(1.00 QT CN )	6	6	36
915	011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	6	6	36
915	013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	6	6	36
915	014386076	LUBRICATING OIL, ENG	QT	(1.00 QT CN )	12	12	36
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	2	36
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	3	3	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	1	1	36
803	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	1	1	4X
				, , , , , , , , , , , , , , , , , , ,			



# Fort Carson HHC 3RD BDE POL Activity Authorized Use List



Building # 1982

N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
005825382	ENAMEL, FLAT BLACK	РТ	(1.00 PT CN )	1	0	4X
006469727	CYLINDER, ENGINE STARTING	BX	(20.0 OZ CT )	1	1	9K
006574959	HYDRAULIC FLUID,AUT	CN	(5.00 GL CN )	2	2	36
008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	1	4X
009023871	ADHESIVE	KT	(1.00 EA TU )	1	2	2B
009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	12	12	36
00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	2	0	36
010355392	LUBRICATING OIL,GEA	QТ	(1.00 QT CN )	3	3	36
010546453	CLEANER.LUBRICANT A	РТ	(1.00 PT CN )	1	1	36
011029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	1	1	36
11773988	LUBRICATING OIL.ENG	QT	(1.00 QT CN )	3	12	36
011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	2	8	36
013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	6	12	36
014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	6	12	36
014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	4	4	36
014413218	ANTIFREEZE	GL	(1.00 GL CN )	6	6	36
014413221	ANTIFREEZE	СО	(5.00 GL CO )	5	5	36
01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	1	1	4X
	006469727 006574959 008893534 009023871 009262275 00GL00007 010355392 010546453 011029455 11773988 011977693 013534799 014386076	005825382         ENAMEL. FLAT BLACK           006469727         CYLINDER.ENGINE STARTING           006574959         HYDRAULIC FLUID.AUT           008893534         TAPE.ANTISEIZING           009023871         ADHESIVE           009262275         CLEANING COMPOUND WIN           00GL00007         DISTILLED-DEIONIZED           010355392         LUBRICATING OIL.GEA           010546453         CLEANER.LUBRICANT A           011029455         BRAKE FLUID.AUTOMOT           11773988         LUBRICATING OIL.ENG           011977693         GREASE.AUTOMOTIVE A           013534799         HYDRAULIC FLUID.AUT           014386076         LUBRICATING OIL.ENG           014386082         LUBRICATING OIL.ENG           014413218         ANTIFREEZE           014413221         ANTIFREEZE	005825382         ENAMEL. FLAT BLACK         PT           006469727         CYLINDER.ENGINE STARTING         BX           006574959         HYDRAULIC FLUID.AUT         CN           008893534         TAPE.ANTISEIZING         EA           009023871         ADHESIVE         KT           009262275         CLEANING COMPOUND WIN         PT           00GL00007         DISTILLED-DEIONIZED         EA           010355392         LUBRICATING OIL.GEA         OT           010546453         CLEANER.LUBRICANT A         PT           011029455         BRAKE FLUID.AUTOMOT         GL           11773988         LUBRICATING OIL.ENG         QT           011977693         GREASE.AUTOMOTIVE A         CA           013534799         HYDRAULIC FLUID.AUT         QT           014386076         LUBRICATING OIL.ENG         QT           014386082         LUBRICATING OIL.ENG         CN           014413218         ANTIFREEZE         GL           014413221         ANTIFREEZE         CO	005825382         ENAMEL. FLAT BLACK         PT         (1.00 PT CN )           006469727         CYLINDER.ENGINE STARTING         BX         (20.0 OZ CT )           006574959         HYDRAULIC FLUID.AUT         CN (5.00 GL CN )           008893534         TAPE.ANTISEIZING         EA (1.00 OZ SP )           009023871         ADHESIVE         KT (1.00 EA TU )           009262275         CLEANING COMPOUND WIN         PT (1.00 PT BT )           00GL00007         DISTILLED-DEIONIZED         EA (1.00 GL BT )           010355392         LUBRICATING OIL.GEA         QT (1.00 QT CN )           011029455         BRAKE FLUID.AUTOMOT         GL (1.00 GL CN )           11773988         LUBRICATING OIL.ENG         QT (1.00 QT CN )           011977693         GREASE.AUTOMOTIVE A         CA (14.0 OZ CT )           014386076         LUBRICATING OIL.ENG         QT (1.00 QT CN )           014386082         LUBRICATING OIL.ENG         CN (5.00 GL CN )           014413218         ANTIFREEZE         GL (1.00 GL CN )	005825382         ENAMEL. FLAT BLACK         PT         (1.00 PT CN )         1           006469727         CYLINDER,ENGINE STARTING         BX         (20.0 OZ CT )         1           006574959         HYDRAULIC FLUID,AUT         CN         (5.00 GL CN )         2           008893534         TAPE,ANTISEIZING         EA         (1.00 OZ SP )         1           009023871         ADHESIVE         KT         (1.00 EA TU )         1           009262275         CLEANING COMPOUND WIN         PT         (1.00 PT BT )         12           00GL00007         DISTILLED-DEIONIZED         EA         (1.00 QT BT )         3           010355392         LUBRICATING OIL,GEA         OT         (1.00 QT CN )         3           010546453         CLEANER,LUBRICANT A         PT         (1.00 QT CN )         1           011029455         BRAKE FLUID,AUTOMOT         GL         (1.00 QT CN )         3           011977693         GREASE,AUTOMOTIVE A         CA         (14.0 OZ CT )         2           013534799         HYDRAULIC FLUID,AUT         QT         (1.00 QT CN )         6           014386082         LUBRICATING OILENG         QT         (1.00 QT CN )         6           014413218         ANTIFREEZE	005825382         ENAMEL. FLAT BLACK         PT         (1.00 PT CN )         1         0           006469727         CYLINDER.ENGINE STARTING         BX         (20.0 OZ CT )         1         1           006574959         HYDRAULIC FLUID.AUT         CN         (5.00 GL CN )         2         2           008893534         TAPE.ANTISEIZING         EA         (1.00 OZ SP )         1         1           009023871         ADHESIVE         KT         (1.00 EA TU )         1         2           009262275         CLEANING COMPOUND WIN         PT         (1.00 GL BT )         12         12           00GL00007         DISTILLED-DEIONIZED         EA         (1.00 GL BT )         2         0           010355392         LUBRICATING OILGEA         QT         (1.00 QT CN )         3         3           010546453         CLEANER.LUBRICANT A         PT         (1.00 GL CN )         1         1           11773988         LUBRICATING OILENG         QT         (1.00 QT CN )         3         12           011977693         GREASE.AUTOMOTIVE A         CA         (14.0 QZ CT )         2         8           013534799         HYDRAULIC FLUID.AUT         QT         (1.00 QT CN )         6         12



## Fort Carson C/104TH MI POL Activity Authorized Use List



Building #

1982

Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
DRY CLEANING SOLVEN	GL	(1.00 GL CN )	1	0	36
LUB OIL WEA LSA MIL-L	GL	(1.00 GL CN )	1	0	36
GREASE MOLYBDENUM DIS	CA	(14.0 OZ CT )	1	0	36
LUBRICANT,SOLID FIL	CN	(16.0 OZ CN )	1	0	36
	DRY CLEANING SOLVEN  LUB OIL WEA LSA MIL-L  GREASE MOLYBDENUM DIS	DRY CLEANING SOLVEN GL  LUB OIL WEA LSA MIL-L GL  GREASE MOLYBDENUM DIS CA	DRY CLEANING SOLVEN  GL (1.00 GL CN )  LUB OIL WEA LSA MIL-L  GL (1.00 GL CN )  GREASE MOLYBDENUM DIS  CA (14.0 OZ CT )	DRY CLEANING SOLVEN  GL  (1.00 GL CN  )  1  LUB OIL WEA LSA MIL-L  GL  (1.00 GL CN  )  1  GREASE MOLYBDENUM DIS  CA  (14.0 OZ CT  )  1	DRY CLEANING SOLVEN         GL         (1.00 GL CN )         1         0           LUB OIL WEA LSA MIL-L         GL         (1.00 GL CN )         1         0           GREASE MOLYBDENUM DIS         CA         (14.0 OZ CT )         1         0



## Fort Carson C/144 ADA POL Activity Authorized Use List



Building # 1982

N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	1	4X
009023871	ADHESIVE	кт	(1.00 EA TU )	1	1	2B
009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	6	12	36
00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	1	1	36
00GL00036	FUEL ENGINE PRIMER	CN	(11.0 OZ CN )	1	1	36
010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	3	3	36
010536688	CLEANER, LUBRICANT A	GL	(1.00 GL CN )	1	1	36
011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	1	1	36
011784726	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	1	1	36
011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	1	1	36
11977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	6	12	36
013534799	HYDRAULIC FLUID,AUT	QТ	(1.00 QT CN )	6	6	36
014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	12	12	36
014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	2	36
014413218	ANTIFREEZE	GL	(1.00 GL CN )	4	4	36
014413221	ANTIFREEZE	СО	(5.00 GL CO )	3	3	36
01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	1	1	4X
	009023871 009262275 00GL00007 00GL00036 010355393 010536688 011029455 011784726 011977689	008893534         TAPE,ANTISEIZING           009023871         ADHESIVE           009262275         CLEANING COMPOUND WIN           00GL00007         DISTILLED-DEIONIZED           00GL00036         FUEL ENGINE PRIMER           010355393         LUBRICATING OIL,GEA           010536688         CLEANER,LUBRICANT A           011029455         BRAKE FLUID,AUTOMOT           011784726         LUBRICATING OIL,ENG           011977689         GREASE,AUTOMOTIVE A           11977693         GREASE,AUTOMOTIVE A           014386076         LUBRICATING OIL,ENG           014386082         LUBRICATING OIL,ENG           014413218         ANTIFREEZE           014413221         ANTIFREEZE	008893534         TAPE.ANTISEIZING         EA           009023871         ADHESIVE         KT           009262275         CLEANING COMPOUND WIN         PT           00GL00007         DISTILLED-DEIONIZED         EA           00GL00036         FUEL ENGINE PRIMER         CN           010355393         LUBRICATING OIL.GEA         CN           010536688         CLEANER.LUBRICANT A         GL           011029455         BRAKE FLUID.AUTOMOT         GL           011784726         LUBRICATING OIL.ENG         QT           011977689         GREASE.AUTOMOTIVE A         CN           11977693         GREASE.AUTOMOTIVE A         CA           013534799         HYDRAULIC FLUID.AUT         QT           014386076         LUBRICATING OIL.ENG         QT           014386082         LUBRICATING OIL.ENG         CN           014413218         ANTIFREEZE         GL           014413221         ANTIFREEZE         GL	008893534         TAPE.ANTISEIZING         EA         (1.00 OZ SP )           009023871         ADHESIVE         KT (1.00 EA TU )           009262275         CLEANING COMPOUND WIN PT (1.00 PT BT )           00GL00007         DISTILLED-DEIONIZED EA (1.00 GL BT )           00GL00036         FUEL ENGINE PRIMER CN (11.0 OZ CN )           010355393         LUBRICATING OIL.GEA CN (5.00 GL CN )           011029455         BRAKE FLUID.AUTOMOT GL (1.00 GL CN )           011784726         LUBRICATING OIL.ENG QT (1.00 QT CN )           011977689         GREASE.AUTOMOTIVE A CN (6.50 LB CN )           11977693         GREASE.AUTOMOTIVE A CA (14.0 OZ CT )           014386076         LUBRICATING OIL.ENG QT (1.00 QT CN )           014386082         LUBRICATING OIL.ENG CN (5.00 GL CN )           014413218         ANTIFREEZE GL (1.00 GL CN )	008893534         TAPE.ANTISEIZING         EA         (1.00 OZ SP )         1           009023871         ADHESIVE         KT (1.00 EA TU )         1           009262275         CLEANING COMPOUND WIN         PT (1.00 PT BT )         6           00GL00007         DISTILLED-DEIONIZED         EA (1.00 GL BT )         1           00GL00036         FUEL ENGINE PRIMER         CN (11.00 ZC N )         1           010355393         LUBRICATING OIL.GEA         CN (5.00 GL CN )         3           010536688         CLEANER,LUBRICANT A         GL (1.00 GL CN )         1           011029455         BRAKE FLUID,AUTOMOT         GL (1.00 GL CN )         1           011977689         GREASE,AUTOMOTIVE A         CN (6.50 LB CN )         1           011977693         GREASE,AUTOMOTIVE A         CA (14.0 OZ CT )         6           013534799         HYDRAULIC FLUID,AUT         QT (1.00 QT CN )         6           014386076         LUBRICATING OIL,ENG         QT (1.00 QT CN )         12           014386082         LUBRICATING OIL,ENG         CN (5.00 GL CN )         4           014413218         ANTIFREEZE         GL (1.00 GL CN )         4           014413221         ANTIFREEZE         CO (5.00 GL CO )         3	008893534         TAPE.ANTISEIZING         EA         (1.00 OZ SP )         1         1           009023871         ADHESIVE         KT (1.00 EA TU )         1         1           009262275         CLEANING COMPOUND WIN         PT (1.00 PT BT )         6         12           00GL00007         DISTILLED-DEIONIZED         EA (1.00 GL BT )         1         1           00GL00036         FUEL ENGINE PRIMER         CN (51.00 GL CN )         1         1           010355393         LUBRICATING OIL.GEA         CN (5.00 GL CN )         3         3           010536688         CLEANER.LUBRICANT A         GL (1.00 GL CN )         1         1           011029455         BRAKE FLUID.AUTOMOT         GL (1.00 GL CN )         1         1           011784726         LUBRICATING OIL.ENG         QT (1.00 QT CN )         1         1           011977689         GREASE.AUTOMOTIVE A         CN (6.50 LB CN )         1         1           11977693         GREASE.AUTOMOTIVE A         CA (14.0 OZ CT )         6         12           014386076         LUBRICATING OIL.ENG         QT (1.00 QT CN )         12         12           014386082         LUBRICATING OIL.ENG         CN (5.00 GL CN )         4         4



# Fort Carson HHC 3D BCT BARRACK Activity Authorized Use List



Building # 1982

NS	N / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
— 793	000456923	REMOVER.FLOOR POLIS	GL	(1.00 GL CN )	3	0	2E
684	005843129	DISINFECTANT.PINE OIL	GL	(1.00 GL CN )	3	0	36
793	00GL00027	DETERGENT GENERAL	EA	(16.0 OZ BT )	3	0	2E
684	00GL00050	DEODORANT.URINAL	EA	(4.00 OZ PG )	12	0	36
793	00GL00066	SCOURING POWDER	EA	(21.0 OZ CN )	3	0	2E
793	013425315	CLEANING COMPOUND, SOLVENT	BX	(24.0 OZ BT )	12	0	2E
793	01GL00002	GLASS CLEANER.ECOLAB	EA	(2.50 GL CO )	1	0	2E
793	01GL00003	DETERGENT BATHROOM,ECOLAB	EA	(2.50 GL CO )	1	0	2E
793	01GL00004	DEODORIZER,ECOLAB	EA	(2.50 GL CO )	1	0	2E
793	01GL00005	DETERGENT GENERAL	EA	(2.50 GL CO )	1	0	2E
85:	1GL00009	HAND CLEANER,ECOLAB	EA	(450.ML CO )	10	0	2E
793	01GL00020	CLEANER,FLOOR PACKETS	EA	(45.0 OZ CN )	2	0	2E
793	01GL00028	GLASS CLEANER	ВТ	(16.0 OZ BT )	12	0	2E
793	01GL00064	SCRUBBING PAD.SIMPLE GREEN	EA	(4.00 OZ PG )	12	0	2E
793	01GL00067	FLOOR FINISH SE JOHNSON	GL	(1.00 GL BT )	4	0	2E
793	01GL00068	GLASS CLEANER, WINDEX	EA	(32.0 OZ BT )	12	0	2E
793	01GL00069	CLEANER,SOFT SCRUB	EA	(24.0 OZ BT )	9	0	2E
793	01GL00070	POLISH,LEMON PLEDGE	EA	(18.0 OZ CN )	6	0	2E

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in these buildings (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings' potential spill sources are:

•	Aboveground Storage Tank	Convault
•	Underground Storage Tank	
•	Indoor Maintenance Facility	Sorbent Materials
•	Storage Areas	Sorbent Materials
•	Outdoor Storage Areas	Sorbent Materials
•	Mobile Storage	Sorbent Materials

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills are located in the storage areas.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the buildings for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the buildings for spill diversion and containment.

• Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

#### 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



### **SPILL REPORT FORM**

UNIT:	
DATE/TIME: PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up maexpended	terials
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, an amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 9	
3. The DECAM POC for this report and clearance is at	
FC form 1200	

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#### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer			

ATTACHMENT 1 BUILDING 2031

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 2031.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the DCA.

#### 1.3 FUNCTION OF BUILDING

The building is being used for general purpose maintenance.

#### 1.4 LOCATION OF BUILDING

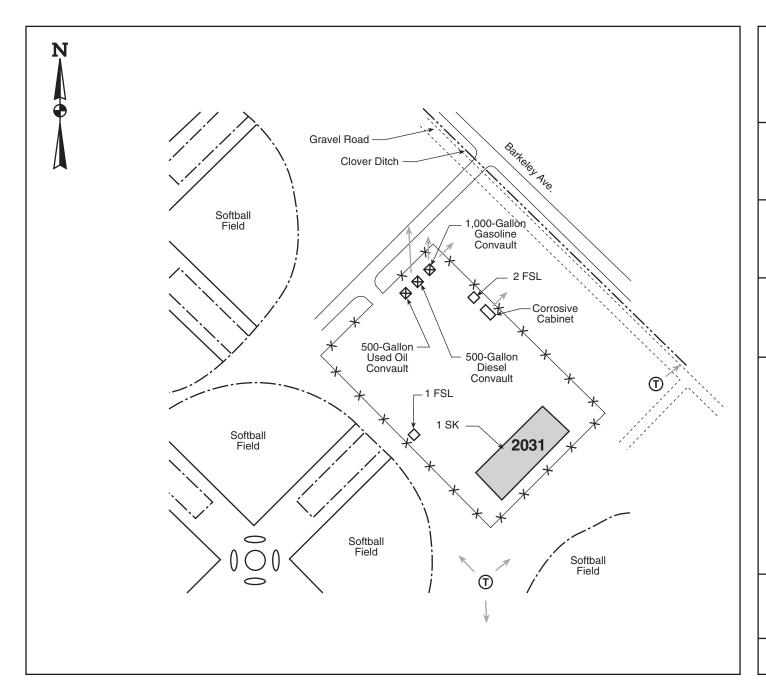
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL spill prevention at this building is the Environmental Protection Officer (EPO) for the DCA.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL in and around the building, are provided in the pages following Section 1.0.



Building 2031 General Purpose Maintenance Fort Carson, CO

## Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

FSL Flammable Storage Locker

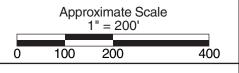
SK Spill Kit

X X Fence

T Pole-Mounted Transformer

---- Drainage Ditch/Culvert

Direction of Flow



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL are:

Aboveground Storage Tank

Table 2-1 presents a prediction of the total quantity of POL, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Hazardous substances are not stored at this building. POL stored at this building is:

- Diesel
- Gasoline
- Used Oil

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	500	500	West
AST No. 001	Used Oil	Tank Overflow	25	25	West
AST No. 001	Used Oil	Leakage	50	<1	West
AST No 002	Gasoline	Rupture	1,000	1,000	West
AST No. 002	Gasoline	Tank Overflow	25	25	West
AST No. 002	Gasoline	Leakage	100	< 1	West
AST No. 003	Diesel	Rupture	500	500	West
AST No. 003	Diesel	Tank Overflow	25	25	West
AST No. 003	Diesel	Leakage	50	<1	West

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UN	NIT:		
DA	ATE	C/TIME:/	PHONE:
1.	The	e following information is need	ded in the event of a POL or Hazardous Substance Spill:
	A.	Name and phone number of J	person discovering spill
	В.	Date and Time spill occurred	1
	C.	Location of Spill	
	D.	Type of material spilled	
	E.	Estimated Quantity of materi	al spilled (Gallons)
	F.	Cause of spill	
	G.	Affected resources or facilities	es
	Н.	Did spilled material enter any	y Drains or Ditches? Yes No
	I.		of contaminated soil, dry sweep and/or other clean-up materials
	J.	Description of clean-up or ot	her remedial action taken
2.		*	than 5 gallons, or covering more than 100 square feet, and/or any must be reported to the Fort Carson, Fire Department at 911.
3.	Th	ne DECAM POC for this report	t and clearance is at
FC	' for	m 1200	

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## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer			

ATTACHMENT 1 BUILDING 2082

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 2082.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by 1/68th AR Battalion.

#### 1.3 FUNCTION OF BUILDING

The building is being used as a motor pool.

#### 1.4 LOCATION OF BUILDING

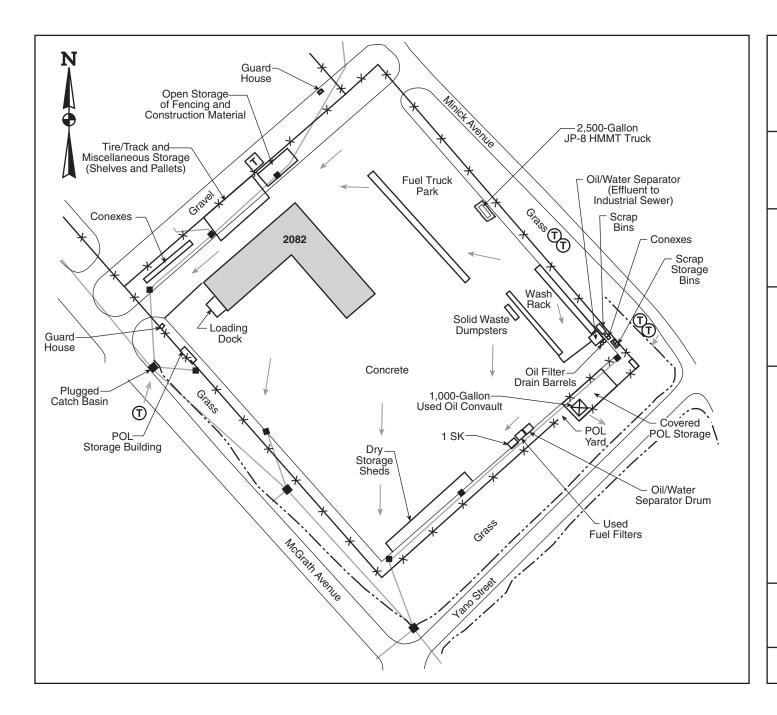
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the 1/68th AR Battalion.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 2082 1/68 Armor Battalion Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

FSL Flammable Storage Locker

SK Spill Kit

X X Fence

D Pole-Mounted Transformer

T Pad-Mounted Transformer

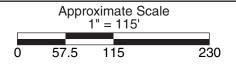
Storm Drain

---- Drainage Ditch/Culvert

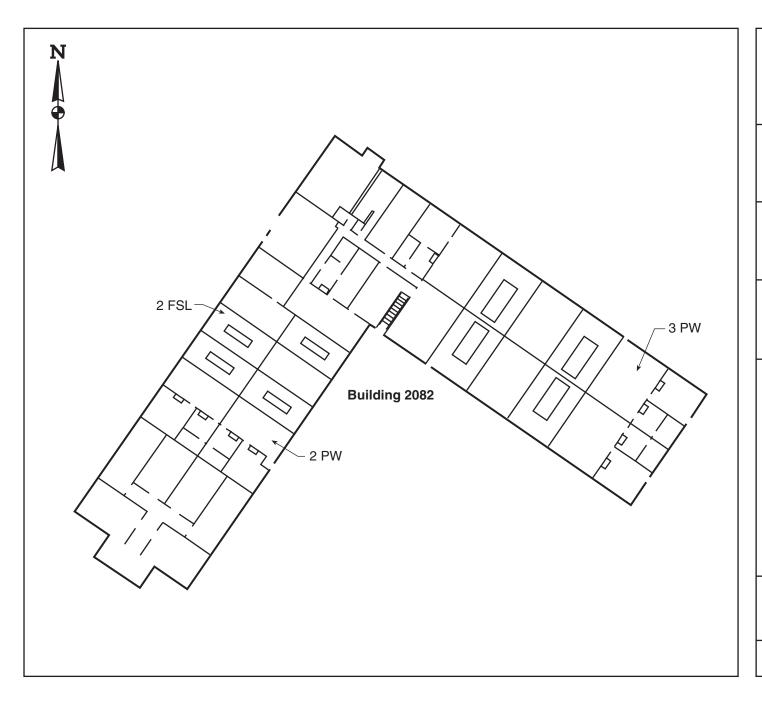
— Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



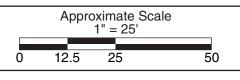
Building 2082 1/68 Armor Battalion Motor Pool Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



PW Parts Washer
FSL Flammable Storage Locker



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility
- Outdoor Spent Product Storage Facility
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the building are presented in List 2-1. POL stored at this building include:

- Used Oil
- JP-8

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1
Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	West
AST No. 001	Used Oil	Tank Overflow	25	25	West
AST No. 001	Used Oil	Leakage	100	< 1	West
Mobile Storage	JP-8	Rupture	2,500	2,500	West
Mobile Storage	JP-8	Tank Overflow	25	25	West
Mobile Storage	JP-8	Leakage	100	< 1	West
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Storage Area	POL	Rupture	55	55	Not Available
Storage Area	POL	Leakage	5	<1	Not Available
Storage Area	POL	Rupture	5	5	Not Available
Storage Area	POL	Leakage	1	<1	Not Available
Storage Area	Hazardous Substance	Rupture	5	5	Not Available
Storage Area	Hazardous Substance	Leakage	1	< 1	Not Available
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	< 1	Not Applicable
Outdoor New Storage	POL	Rupture	5	5	Southeast
Outdoor New Storage	POL	Leakage	1	<1	Southeast
Outdoor Spent Storage	POL	Rupture	5	5	Southeast
Outdoor Spent Storage	POL	Leakage	1	<1	Southeast

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## LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson 1/68 ARMOR POL Activity Authorized Use List



Building # 2082

NSN / MCN		Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001116254	HYDRAULIC FLUID.FIR	GL	(1.00 GL CN )	54	120	36
915	001116256	HYDRAULIC FLUID.FIR	QТ	(1.00 QT CN )	48	48	36
915	001178791	LUBRICATING OIL,ENG	РТ	(1.00 PT CN )	6	6	36
915	001450268	GREASE AIRCRAFT GP WD	CN	(6.50 LB CN )	4	15	33
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	4	21	36
681	002232739	ACETONE TECH LIQ FORM	PT	(1.00 PT CN )	1	0	36
685	002246657	CLEANING COMP RIFLE B	CN	(8.00 OZ CN )	1	3	36
685	002271887	CLEANING COMPOUND 1 Q	QТ	(1.00 QT CN )	2	4	36
264	002565526	LUBRICANT. TIRE AND RIM	QT	(1.00 QT CN )	1	1	9K
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	6	6	36
91	02718427	LUBRICATING OIL.GEN	CN	(4.00 OZ CN )	2	1	36
915	004022372	LUB OIL ICE SUB ZERO	CN	(5.00 GL CN )	1	1	36
68 I	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	2	36
801	005825382	ENAMEL, FLAT BLACK	РТ	(1.00 PT CN )	6	0	4X
683	005843041	PROPANE	EA	(14.1 OZ CY )	0	96	36
801	005843150	LACQUER, FLAT WHITE	РТ	(1.00 PT CN )	3	0	4X
915	006574959	HYDRAULIC FLUID.AUT	CN	(5.00 GL CN )	1	†	36
801	007219743	ENAMEL, RED	РТ	(1.00 PT CN )	3	0	4X
108	007219744	ENAMEL, YELLOW	РТ	(1.00 PT CN )	3	0	4X
801	007219754	LACQUER, GRAY	PT	(1.00 PT CN )	3	0	4X
108	008489272	ENAMEL, LUSTERLESS OD	PT	(1.00 PT CN )	3	0	4X
803	00849007 I	GASKET CEMENT	TU	(1.50 OZ TU )	1	1	4X
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	1	4X
— 685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	24	108	36
915	009359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	12	6	36



# Fort Carson 1/68 ARMOR POL Activity Authorized Use List



Building # 2082

NS	N/MCN	/ MCN Nomenclature		Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	009857099	LUB OIL ATE MIL-L-236	QT	(1.00 QT CN )	144	300	33
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	6	24	36
264	00GL00034	BONDING COMPOUND, TIRE	CN	(1.00 PT CN )	1	1	9K
685	00GL00036	FUEL ENGINE PRIMER	CN	(11.0 OZ CN )	2	0	36
291	00GL00073	CYLINDER.ENGINE STARTING	EA	(20.0 OZ CT )	6	12	9K
915	010355392	LUBRICATING OIL,GEA	QТ	(1.00 QT CN )	24	24	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	2	5	36
915	010536688	CLEANER, LUBRICANT A	GL	(1.00 GL CN )	1	12	36
915	011029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	2	6	36
915	011773988	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	48	96	36
91.	11977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	4	6	36
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	50	100	36
915	012623358	GREASE.AIRCRAFT	CA	(14.0 OZ CT )	50	50	36
793	013425316	CLEANING COMPOUND.S	CN	(5.00 GL CN )	1	0	2E
915	013534799	HYDRAULIC FLUID.AUT	QT	(1.00 QT CN )	48	96	36
915	014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	60	96	36
915	014386082	LUBRICATING OIL.ENG	CN	(5.00 GL CN )	5	36	36
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	24	72	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	12	14	36
915	014607526	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	48	96	36
915	014607536	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	12	36	36
803	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	4	4	4X
793 —	01GL00028	GLASS CLEANER	ВТ	(16.0 OZ BT )	6	6	2E
-	<del></del>						

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.

• Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:	
DATE/	ΓΙΜΕ: PHONE:
1. The	following information is needed in the event of a POL or Hazardous Substance Spill:
A.	Name and phone number of person discovering spill
B.	Date and Time spill occurred/
C.	Location of Spill
D.	Type of material spilled
E.	Estimated Quantity of material spilled (Gallons)
F.	Cause of spill
G.	Affected resources or facilities
H.	Did spilled material enter any Drains or Ditches? Yes No
	Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended
J.	Description of clean-up or other remedial action taken
	V FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or any punt entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.
3. The	DECAM POC for this report and clearance is at
FC form	n 1200

## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer			

ATTACHMENT 1 BUILDING 2392

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 2392.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the 1/8 Infantry Battalion.

#### 1.3 FUNCTION OF BUILDING

The building is being used as a motor pool.

#### 1.4 LOCATION OF BUILDING

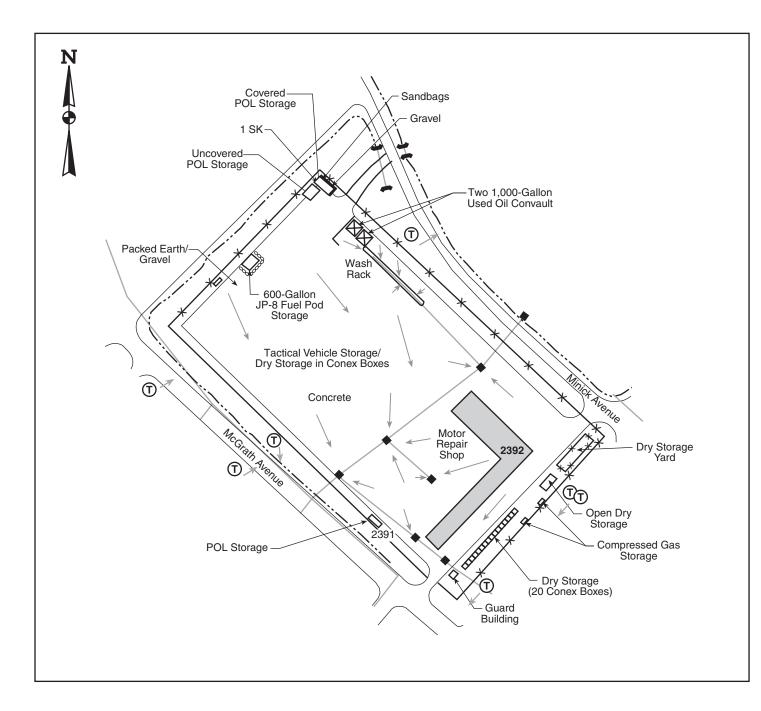
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the 1/8 Infantry Battalion.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 2392 1/8 Infantry Battalion Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

SK Spill Kit

X X Fence

Pole-Mounted Transformer

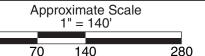
Storm Drain

--- Drainage Ditch/Culvert

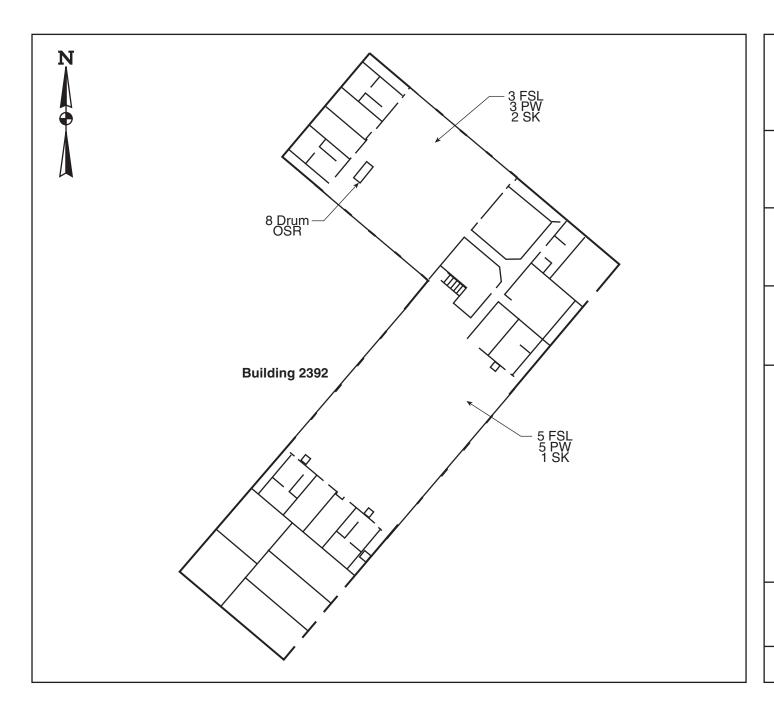
— Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 2392 1/8 Infantry Battalion Motor Pool Fort Carson, CO

# Hazardous Materials Inventory

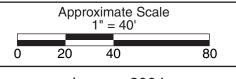
# Storage Location Map



OSR Oil Storage Rack
PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the building are presented in List 2-1. POL stored at this building include:

- Used Oil
- JP-8

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	West
AST No. 001	Used Oil	Tank Overflow	25	25	West
AST No. 001	Used Oil	Leakage	100	100	West
AST No. 002	Used Oil	Rupture	1,000	1,000	West
AST No. 002	Used Oil	Tank Overflow	25	25	West
AST No. 002	Used Oil	Leakage	100	100	West
Mobile Storage	JP-8	Rupture	600	600	Southeast
Mobile Storage	JP-8	Tank Overflow	25	25	Southeast
Mobile Storage	JP-8	Leakage	100	< 1	Southeast
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Storage Area	Hazardous Substance	Rupture	5	5	Northwest
Storage Area	Hazardous Substance	Leakage	1	<1	Northwest
Parts Washer	Hazardous Substance	Rupture	35	35	Southeast
Parts Washer	Hazardous Substance	Leakage	1	< 1	Southeast
Storage Area	POL	Rupture	5	5	Southeast
Storage Are	POL	Leakage	1	< 1	Southeast
Storage Area	POL	Rupture	5	5	Southeast
Storage Area	POL	Leakage	1	< 1	Southeast
Outdoor New Storage	POL	Rupture	5	5	Southeast
Outdoor New Storage	POL	Leakage	1	< 1	Southeast

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## LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson 1/8 INFANTRY POL Activity Authorized Use List



Building # 2392

NS	N/MCN	Nomenclature	omenclature U/I Unit Of Use		GSL Qty	UBL Qty	Supply Class
915	001116256	HYDRAULIC FLUID.FIR	QТ	(1.00 QT CN )	24	96	36
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	2	10	36
681	002010906	ALCOHOL, DENATURED	PT	(1.00 PT CN )	4	48	36
915	002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	12	48	33
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	4	8	36
801	002906983	ENAMEL, GLOSS WHITE	РТ	(1.00 PT CN )	6	0	4X
801	005825382	ENAMEL, FLAT BLACK	PT	(1.00 PT CN )	12	0	4X
915	006574959	HYDRAULIC FLUID.AUT	CN	(5.00 GL CN )	0	4	36
801	007219743	ENAMEL, RED	PT	(1.00 PT CN )	6	0	4X
108	008489272	ENAMEL, LUSTERLESS OD	PT	(1.00 PT CN )	6	0	4X
80	08490071	GASKET CEMENT	TU	(1.50 OZ TU )	1	0	4X
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	4	4	4X
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	18	24	36
915	009354018	GREASE MOLYBDENUM DIS	CA	(14.0 OZ CT )	10	100	36
915	009359807	HYDRAULIC FLUID PB PR	QТ	(1.00 QT CN )	12	72	36
915	009359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	0	6	36
915	009857099	LUB OIL ATE MIL-L-236	QT	(1.00 QT CN )	0	24	33
68 I	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	4	17	36
915	010355392	LUBRICATING OIL,GEA	QT	(1.00 QT CN )	0	24	36
915	010355393	LUBRICATING OIL.GEA	CN	(5.00 GL CN )	5	6	36
915	010536688	CLEANER.LUBRICANT A	GL	(1.00 GL CN )	4	12	36
915	010546453	CLEANER,LUBRICANT A	РТ	(1.00 PT CN )	6	72	36
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	1	12	36
915	011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	1	12	36
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	20	200	36



# Fort Carson 1/8 INFANTRY POL Activity Authorized Use List



Building # 2392

NSN / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
801 013323743	ENAMEL,SEMI-GLOSS BEIGE	РТ	(1.00 PT CN )	12	0	4X
915 013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	18	72	36
915 014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	15	72	36
685 014413221	ANTIFREEZE	CO	(5.00 GL CO )	15	72	36
793 01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	3	0	2E

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.

• Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:					
DATE/TIME: PHONE:					
1. The following information is needed in the event of a POL or Hazardous Substance Spill:					
A. Name and phone number of person discovering spill					
B. Date and Time spill occurred/					
C. Location of Spill					
D. Type of material spilled					
E. Estimated Quantity of material spilled (Gallons)					
Cause of spill					
G. Affected resources or facilities					
H. Did spilled material enter any Drains or Ditches? Yes No					
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended					
J. Description of clean-up or other remedial action taken					
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or a amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.					
3. The DECAM POC for this report and clearance is at					
FC form 1200					

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### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

ATTACHMENT 1 BUILDING 2427

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 2427.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the Auto Craft Shop.

#### 1.3 FUNCTION OF BUILDING

The building is being used for auto repair.

#### 1.4 LOCATION OF BUILDING

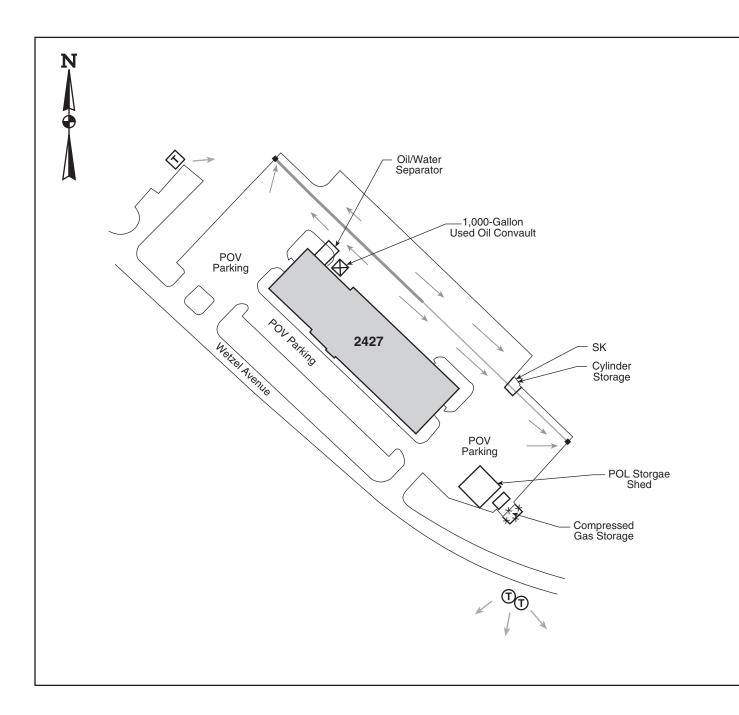
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL spill prevention at this building is the Environmental Protection Officer (EPO) for the Auto Craft Shop.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL storage in and around the building, are provided in the pages following Section 1.0.



Building 2427 Auto Craft Shop Fort Carson, CO

## Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

SK Spill Kit

X X Fence

▼ Tank Location

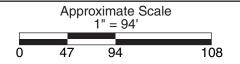
Pole-Mounted Transformer

T Pad-Mounted Transformer

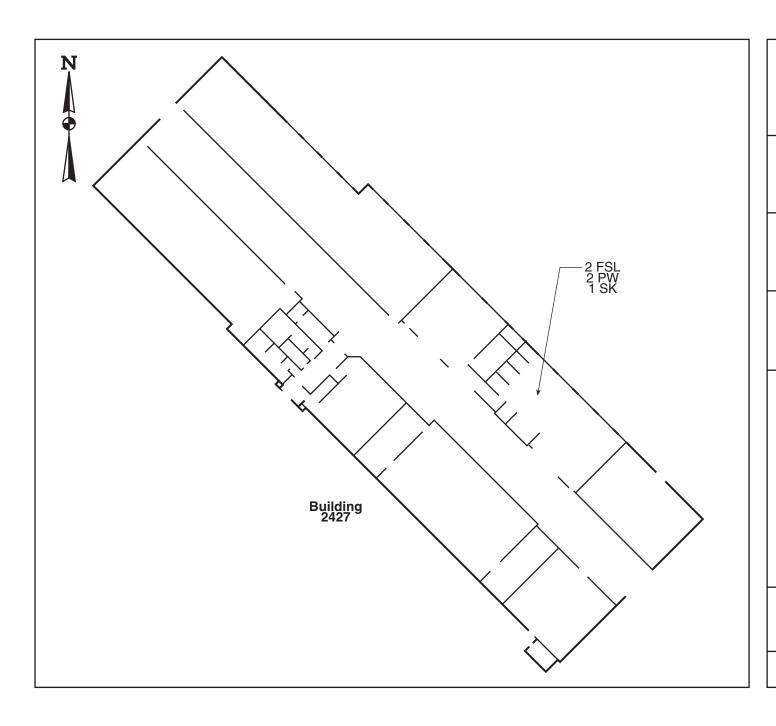
Storm Drain

— Storm Sewer Line

Direction of Flow



January 2004



Building 2427 Auto Craft Shop Fort Carson, CO

# Hazardous Materials Inventory

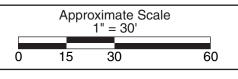
# Storage Location Map



PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tank
- Indoor Maintenance Facility
- Storage Areas

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

No hazardous substances are stored at the building. POL stored at this building:

Used Oil

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	North
AST No. 001	Used Oil	Tank Overflow	25	25	North
AST No. 001	Used Oil	Leakage	100	< 1	North
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	55	55	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	< 1	Not Applicable
Storage Area	POL	Rupture	35	35	Not Applicable
Storage Area	POL	Leakage	5	< 1	Not Applicable

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

- Aboveground Storage Tank......Convault
- Indoor Maintenance Facility......Sorbent Materials

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.

• Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:	
DATE/TIME: PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materia expended	ls
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	any
3. The DECAM POC for this report and clearance is at	-
FC form 1200	

### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

ATTACHMENT 1 BUILDING 2492

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 2492.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the 1/12 Task Force.

#### 1.3 FUNCTION OF BUILDING

The building is being used as a motor pool.

#### 1.4 LOCATION OF BUILDING

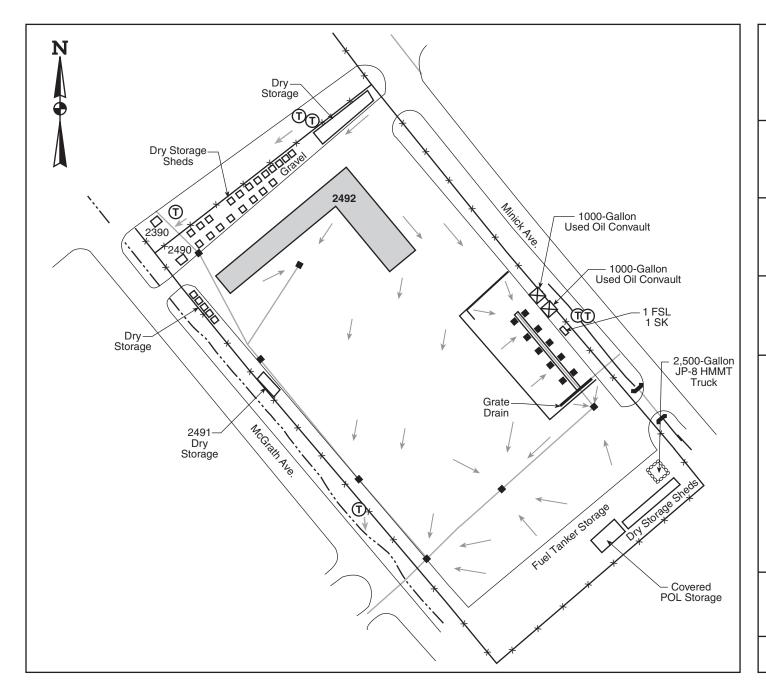
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the 1/12 Task Force.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 2492 1/12 Infantry Task Force Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

# Storage Location Map



FSL Flammable Storage Locker

SK Spill Kit

X X Fence

T Pole-Mounted Transformer

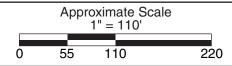
Storm Drain

--- Drainage Ditch/Culvert

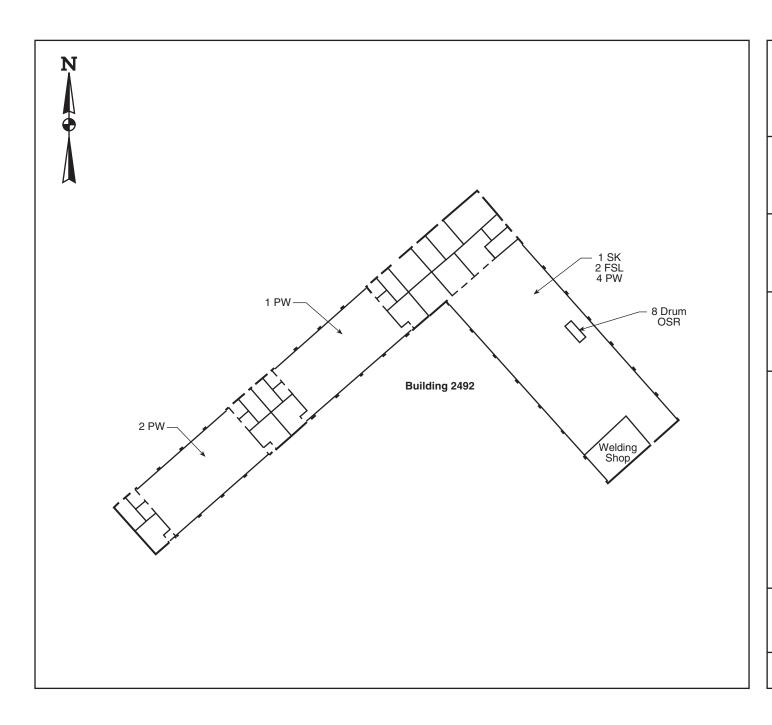
— Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 2492 1/12 Infantry Task Force Motor Pool Fort Carson, CO

# Hazardous Materials Inventory

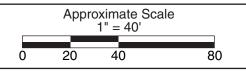
# Storage Location Map



OSR Oil Storage Rack PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the building are presented in List 2-1. POL stored at this building includes:

- Used Oil
- JP-8

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	South
AST No. 001	Used Oil	Tank Overflow	25	25	South
AST No. 001	Used Oil	Leakage	100	< 1	South
AST No. 002	Used Oil	Rupture	1,000	1,000	South
AST No. 002	Used Oil	Tank Overflow	25	25	South
AST No. 002	Used Oil	Leakage	100	< 1	South
Mobile Storage	JP-8	Rupture	2,500	2,500	Northwest
Mobile Storage	JP-8	Tank Overflow	25	25	Northwest
Mobile Storage	JP-8	Leakage	100	< 1	Northwest
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Storage Areas	Hazardous Substance	Rupture	5	5	Not Available
Storage Areas	Hazardous Substance	Leakage	1	< 1	Not Available
Parts Washers	Hazardous Substance	Rupture	35	35	Not Available
Parts Washers	Hazardous Substance	Leakage	1	< 1	Not Available
Storage Area	POL	Rupture	55	55	Not Available
Storage Area	POL	Leakage	1	< 1	Not Available
Storage Area	POL	Rupture	5	5	Not Available
Storage Area	POL	Leakage	1	< 1	Not Available
Outdoor New Storage	POL	Rupture	5	5	Northwest
Outdoor New Storage	POL	Leakage	1	< 1	Northwest

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### LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson 1/12 INFANTRY POL Activity Authorized Use List



Building # 2492

NS	N/MCN	Nomenclature	U/I Unit Of Use		GSL Qty	. Qty UBL Qty	Supply Class
915	001116256	HYDRAULIC FLUID,FIR	QT	(1.00 QT CN )	12	12	36
915	001178791	LUBRICATING OIL,ENG	РТ	(1.00 PT CN )	1	1	36
915	001497432	HYDRAULIC FLUID,FIR	GL	(1.00 GL CN )	12	12	36
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	12	4	36
915	001889858	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	1	1	36
915	002234004	GREASE.MOLYBDENUM D	CN	(6.50 LB CN )	6	6	36
915	002526383	HYDRAULIC FLUID ACFT/	QΤ	(1.00 QT CN )	12	12	33
291	006469727	CYLINDER, ENGINE STARTING	BX	(20.0 OZ CT )	1	1	9K
915	006574959	HYDRAULIC FLUID.AUT	CN	(5.00 GL CN )	2	2	36
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	12	12	36
91:	10355392	LUBRICATING OIL.GEA	QT	(1.00 QT CN )	12	12	36
915	010355393	LUBRICATING OIL.GEA	CN	(5.00 GL CN )	2	2	36
915	010536688	CLEANER,LUBRICANT A	GL	(1.00 GL CN )	2	2	36
915	010569047	DAMPING FLUID	CN	(8.00 LB CN )	6	4	36
915	011029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	2	2	36
915	011773988	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	12	12	36
915	011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	3	3	36
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	30	30	36
915	013534799	HYDRAULIC FLUID.AUT	QT	(1.00 QT CN )	12	12	36
915	014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	24	24	36
915	014386079	LUBRICATING OIL,ENG	DR	(55.0 GL DR )	1	0	36
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	20	20	36
585	014413218	ANTIFREEZE	GL	(1.00 GL CN )	12	12	36
<del></del> 58 <i>5</i>	014413221	ANTIFREEZE	СО	(5.00 GL CO )	20	20	36
303	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	2	2	4X

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

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In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:	
DATE/TIME: PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materia expended	ls
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	any
3. The DECAM POC for this report and clearance is at	-
FC form 1200	

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#### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

		RECORD OF CHANGES/AMENDMENTS	
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer

ATTACHMENT 1 BUILDING 2692

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 2692.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the RHHT/3rd ACR.

#### 1.3 FUNCTION OF BUILDING

The building is being used as a motor pool.

#### 1.4 LOCATION OF BUILDING

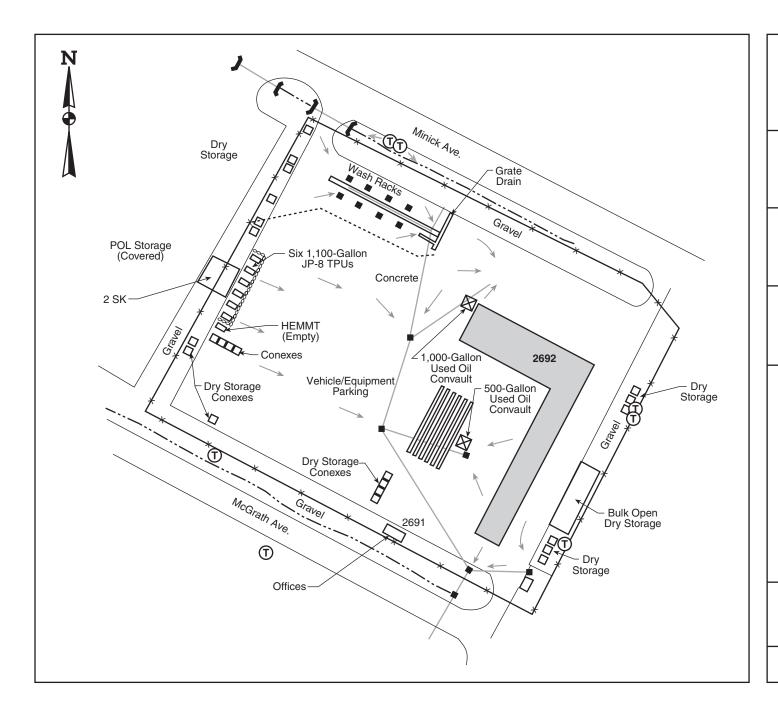
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the RHHT/3rd ACR.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 2692 RHHT/3rd ACR Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



SK Spill Kit

X X Fence

(T) Pole-Mounted Transformer

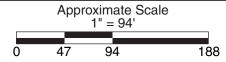
Storm Drain

---- Drainage Ditch/Culvert

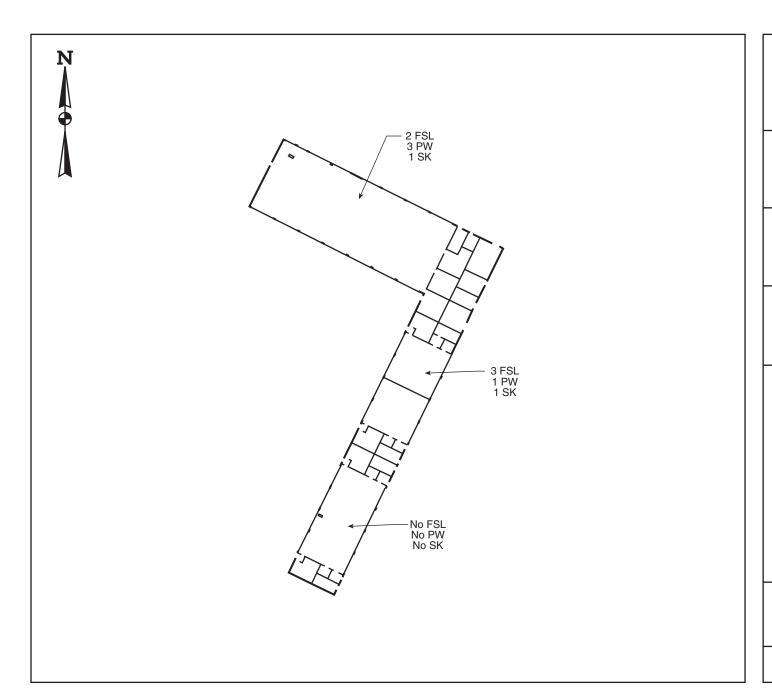
— Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 2692 RHHT/3rd ACR Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

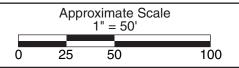
## Storage Location Map



PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the building are presented in List 2-1. POL stored at this building includes:

- Used Oil
- JP-8

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	500	500	Southeast
AST No. 001	Used Oil	Tank Overflow	25	25	Southeast
AST No. 001	Used Oil	Leakage	50	< 1	Southeast
AST No. 002	Used Oil	Rupture	1,000	1,000	Southeast
AST No. 002	Used Oil	Tank Overflow	25	25	Southeast
AST No. 002	Used Oil	Leakage	50	< 1	Southeast
Mobile Storage	JP-8	Rupture	1,100	1,100	East
Mobile Storage	JP-8	Tank Rupture	25	25	East
Mobile Storage	JP-8	Leakaage	100	< 1	East
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	<1	Not Applicable
Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Storage Areas	Hazardous Substance	Leakage	1	< 1	Not Applicable
Storage Area	POL	Rupture	5	5	Not Available
Storage Area	POL	Leakage	1	< 1	Not Available
Outdoor New Storage	POL	Rupture	5	5	Southeast
Outdoor New Storage	POL	Leakage	1	<1	Southeast

#### LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



## Fort Carson 66TH MI POL Activity Authorized Use List



NS	N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	1	0	36
915	002234134	HYDRAULIC FLUID ACFT/	GL	(1.00 GL CN )	6	0	36
915	002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	0	12	33
264	002565526	LUBRICANT. TIRE AND RIM	QT	(1.00 QT CN )	0	1	9K
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	1	0	36
915	002718427	LUBRICATING OIL,GEN	CN	(4.00 OZ CN )	1	0	36
681	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	1	36
108	005825382	ENAMEL, FLAT BLACK	PT	(1.00 PT CN )	8	0	4X
683	005843041	PROPANE	EA	(14.1 OZ CY )	0	12	36
915	006574959	HYDRAULIC FLUID.AUT	CN	(5.00 GL CN )	1	1	36
803	8490071	GASKET CEMENT	TU	(1.50 OZ TU )	2	4	4X
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	0	4X
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	12	24	36
915	009359807	HYDRAULIC FLUID PB PR	QΤ	(1.00 QT CN )	12	12	36
915	009857244	GREASE,AIRCRAFT AND	TU	(4.00 OZ TU )	1	0	36
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	6	6	36
264	00GL00034	BONDING COMPOUND.TIRE	CN	(1.00 PT CN )	1	1	9K
915	010355392	LUBRICATING OIL,GEA	QΤ	(1.00 QT CN )	6	0	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	1	2	36
 €15	011029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	1	2	36
915	011773988	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	0	12	36
€15	011784726	LUBRICATING OIL,ENG	QТ	(1.00 QT CN )	0	12	36
)15	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	20	50	36
)15	013534799	HYDRAULIC FLUID.AUT	QТ	(1.00 QT CN )	12	24	36
)15	014386076	LUBRICATING OIL,ENG	QТ	(1.00 QT CN )	24	48	36



# Fort Carson 43RD ENGR POL Activity Authorized Use List



NSI	N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001116254	HYDRAULIC FLUID.FIR	GL	(1.00 GL CN )	18	120	36
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	6	50	36
915	002234134	HYDRAULIC FLUID ACFT/	GL	(1.00 GL CN )	6	12	36
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	2	5	36
681	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	5	36
801	005825382	ENAMEL, FLAT BLACK	PT	(1.00 PT CN )	6	0	4X
801	008489272	ENAMEL, LUSTERLESS OD	PT	(1.00 PT CN )	3	0	4X
803	008490071	GASKET CEMENT	TU	(1.50 OZ TU )	1	3	4X
803	008893534	TAPE.ANTISEIZING	EA	(1.00 OZ SP )	1	5	4X
685	009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	12	0	36
915	)9359807	HYDRAULIC FLUID PB PR	QТ	(1.00 QT CN )	12	24	36
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	2	6	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	2	4	36
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	1	6	36
915	011773988	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	24	0	36
915	011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	1	6	36
915	011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	50	50	36
915	013534799	HYDRAULIC FLUID.AUT	QT	(1.00 QT CN )	12	12	36
915	014386076	LUBRICATING OIL.ENG	QT	(1.00 QT CN )	48	0	36
915	014386082	LUBRICATING OIL.ENG	CN	(5.00 GL CN )	6	24	36
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	6	18	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	6	7	36
915	014607536	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	1	2	36
<del></del> 793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	6	0	2E
801	01GL00048	POLYURETHANE COATING	QT	(1.00 QT CN )	6	0	4X



## Fort Carson 66TH MI POL Activity Authorized Use List



NSN / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915 014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	5	36
685 014413218	ANTIFREEZE	GL	(1.00 GL CN )	10	12	36
685 014413221	ANTIFREEZE	СО	(5.00 GL CO )	2	2	36
915 014607536	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	1	36
803 01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	1	4	4X
793 01GL00028	GLASS CLEANER	вт	(16.0 OZ BT )	6	24	2E
852 01GL00063	HAND CLEANER, SIMPLE GREEN	EA	(200.ML TU )	3	0	2E
•						******

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

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In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

#### 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



### **SPILL REPORT FORM**

UN	NIT:	<b>!</b>		
DA	ATE	/TIME:		PHONE:
1.	The	e following information	n is needed in the even	at of a POL or Hazardous Substance Spill:
	A.	Name and phone num	nber of person discove	ering spill
	В.	Date and Time spill of	occurred	/
	C.	Location of Spill		
	D.	Type of material spil	led	
	E.	Estimated Quantity of	of material spilled (Gal	lons)
	F.	Cause of spill		
	G.	Affected resources or	r facilities	
	H.	Did spilled material of	enter any Drains or Di	tches? Yes No
	I.	•	• 1	ed soil, dry sweep and/or other clean-up materials
	J.	Description of clean-	up or other remedial a	ection taken
2.			e	o, or covering more than 100 square feet, and/or any led to the Fort Carson, Fire Department at 911.
3.	Th	e DECAM POC for th	is report and clearance	e is at
FC	' for	m 1200		

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#### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

		RECORD OF CHANGES/AMENDMENTS	
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer

ATTACHMENT 1 BUILDING 2792

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 2792.

#### 1.2 CURRENT OCCUPANT

The building is currently occupied by the RHHT/3rd ACR.

#### 1.3 FUNCTION OF BUILDING

The building is being used as a vehicle maintenance shop.

#### 1.4 LOCATION OF BUILDING

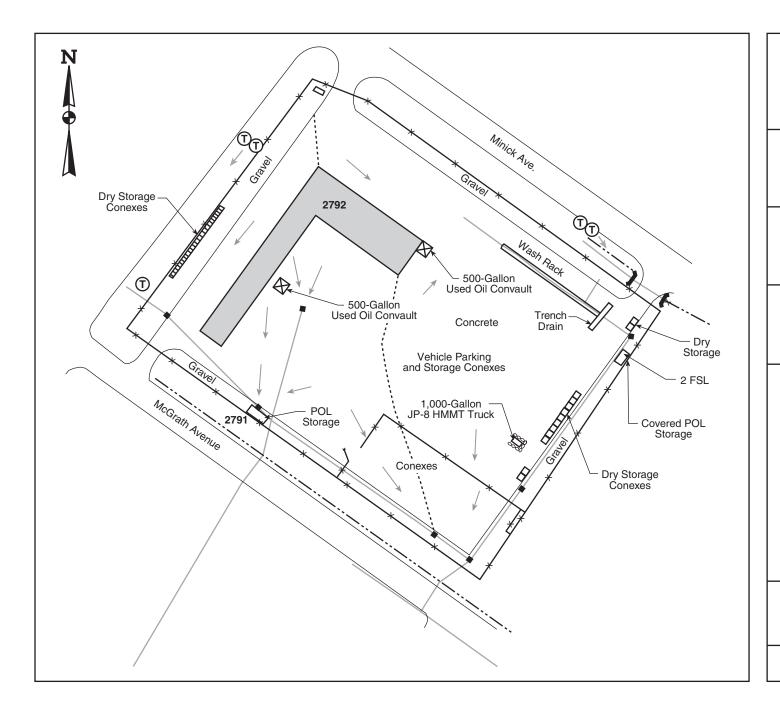
The building is located in the Cantonment Area of Fort Carson, Colorado.

#### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the RHHT/3rd ACR.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 2792 RHHT/3 ACR Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



FSL Flammable Storage Locker

X X Fence

Pole-Mounted Transformer

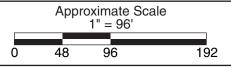
Storm Drain

--- Drainage Ditch/Culvert

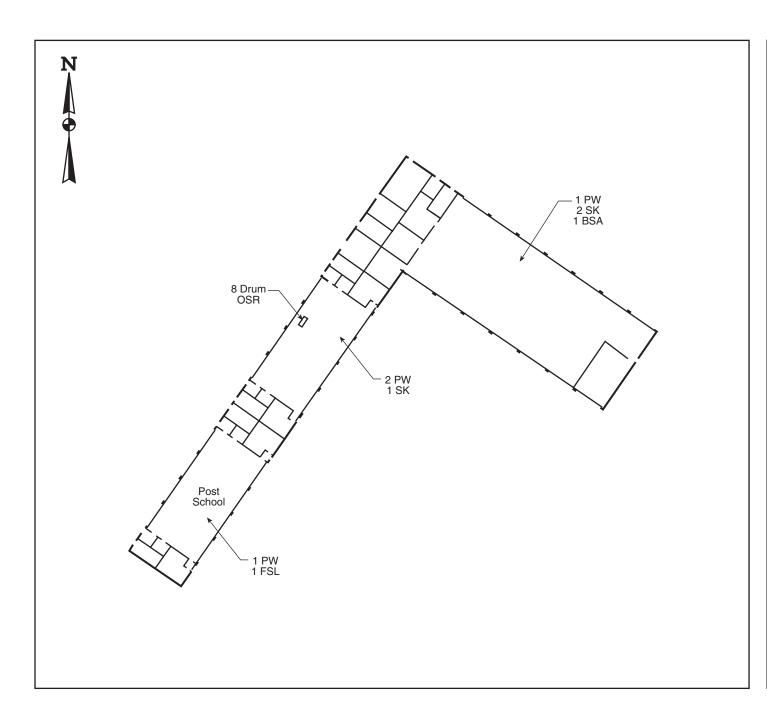
— Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 2792 RHHT/3rd ACR Vehicle Maintenance Shop Fort Carson, CO

## **Hazardous Materials** Inventory

## Storage Location Map

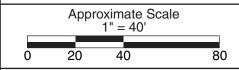


BSA Battery Storage Area OSR Oil Storage Rack

Parts Washer

Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Area
- Battery Storage Area
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

#### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the building are presented in List 2-1. POL stored at this building includes:

- Used Oil
- JP-8

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1
Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	500	500	Northeast
AST No. 001	Used Oil	Tank Overflow	25	25	Northeast
AST No. 001	Used Oil	Leakage	100	<1	Northeast
AST No. 002	Used Oil	Rupture	500	500	Southeast
AST No. 002	Used Oil	Tank Overflow	25	25	Southeast
AST No. 002	Used Oil	Leakage	100	<1	Southeast
Mobile Storage	JP-8	Rupture	1,000	1,000	South
Mobile Storage	JP-8	Tank Overflow	25	25	South
Mobile Storage	JP-8	Leakage	100	<1	South
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	<1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	<1	Not Applicable
Battery Storage	Hazardous Substance	Rupture	5	5	Not Applicable
Battery Storage	Hazardous Substance	Leakage	1	<1	Not Applicable
Miscellaneous Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Miscellaneous Storage Areas	Hazardous Substance	Leakage	1	<1	Not Applicable
Storage Areas	POL	Rupture	55	55	Not Applicable
Storage Areas	POL	Leakage	1	<1	Not Applicable
Storage Areas	POL	Rupture	5	5	Not Applicable
Storage Areas	POL	Leakage	1	<1	Not Applicable
Outdoor Storage	POL	Rupture	5	5	Not Applicable
Outdoor Storage	POL	Leakage	1	<1	Not Applicable

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#### LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



## Fort Carson RHHT 3RD ACR POL Activity Authorized Use List



NS	N / MCN	Nomenclature	Nomenclature U/I Unit Of Use GSL Qty	GSL Qty	Qty UBL Qty	Supply Class	
801	000793754	ENAMEL	PT	(1.00 PT CN )	2	0	4X
915	001116256	HYDRAULIC FLUID.FIR	QT	(1.00 QT CN )	4	8	36
915	001178791	LUBRICATING OIL,ENG	PT	(1.00 PT CN )	2	0	36
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	2	4	36
915	002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	6	24	33
108	002906983	ENAMEL, GLOSS WHITE	PT	(1.00 PT CN )	2	0	4X
681	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	1	36
801	005825382	ENAMEL. FLAT BLACK	PT	(1.00 PT CN )	6	0	4X
801	007219743	ENAMEL, RED	PT	(1.00 PT CN )	2	0	4X
801	008489272	ENAMEL, LUSTERLESS OD	РТ	(1.00 PT CN )	2	0	4X
80.	)849007 I	GASKET CEMENT	TU	(1.50 OZ TU )	1	0	4X
685	008807616	SILICONE COMPOUND	TU	(8.00 OZ TU )	1	0	36
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	12	0	36
915	009354018	GREASE MOLYBDENUM DIS	CA	(14.0 OZ CT )	0	10	36
915	009359807	HYDRAULIC FLUID PB PR	QТ	(1.00 QT CN )	4	8	36
804	009386860	ADHESIVE	CN	(24.0 OZ CN )	1	0	2В
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	2	6	36
291	00GL00073	CYLINDER, ENGINE STARTING	EA	(20.0 OZ CT )	2	0	9K
915	010355392	LUBRICATING OIL,GEA	QТ	(1.00 QT CN )	6	12	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	2	4	36
915	011029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	1	4	36
915	011773988	LUBRICATING OIL,ENG	QТ	(1.00 QT CN )	12	24	36
915	011977689	GREASE, AUTOMOTIVE A	CN	(6.50 LB CN )	†	12	36
— 915	011977692	GREASE,AUTOMOTIVE A	CN	(35.0 LB CN )	1	0	36
€15	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	10	40	36



801 01GL00048

POLYURETHANE COATING

## **Fort Carson** RHHT 3RD ACR POL **Activity Authorized Use List**



Building # 2792

QT

)	Dune	ung #	4174			
N/MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	12	48	36
014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	24	48	36
014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	4	4	36
014413218	ANTIFREEZE	GL	(1.00 GL CN )	12	24	36
014413221	ANTIFREEZE	СО	(5.00 GL CO )	2	4	36
01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	2	0	4X
01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	2	0	2E
01GL00028	GLASS CLEANER	ВТ	(16.0 OZ BT )	3	0	2E
	014386076 014386082 014413218 014413221 01GL00006 01GL00014	N/MCN Nomenclature  013534799 HYDRAULIC FLUID,AUT  014386076 LUBRICATING OIL,ENG  014386082 LUBRICATING OIL,ENG  014413218 ANTIFREEZE  014413221 ANTIFREEZE  01GL00006 CORROSION PREVENTIVE WD40  01GL00014 CLEANING COMPOUND	N/MCN Nomenclature U/I  013534799 HYDRAULIC FLUID,AUT QT  014386076 LUBRICATING OIL,ENG QT  014386082 LUBRICATING OIL,ENG CN  014413218 ANTIFREEZE GL  014413221 ANTIFREEZE CO  01GL00006 CORROSION PREVENTIVE WD40 EA  01GL00014 CLEANING COMPOUND EA	N/MCN         Nomenclature         U/I         Unit Of Use           013534799         HYDRAULIC FLUID,AUT         QT         (1.00 QT CN )           014386076         LUBRICATING OIL,ENG         QT         (1.00 QT CN )           014386082         LUBRICATING OIL,ENG         CN         (5.00 GL CN )           014413218         ANTIFREEZE         GL         (1.00 GL CN )           014413221         ANTIFREEZE         CO         (5.00 GL CO )           01GL00006         CORROSION PREVENTIVE WD40         EA         (9.00 OZ CN )           01GL00014         CLEANING COMPOUND         EA         (1.00 GL CO )	N/MCN         Nomenclature         U/I         Unit Of Use         GSL Qty           013534799         HYDRAULIC FLUID,AUT         QT         (1.00 QT CN )         12           014386076         LUBRICATING OIL,ENG         QT         (1.00 QT CN )         24           014386082         LUBRICATING OIL,ENG         CN         (5.00 GL CN )         4           014413218         ANTIFREEZE         GL         (1.00 GL CN )         12           014413221         ANTIFREEZE         CO         (5.00 GL CO )         2           01GL00006         CORROSION PREVENTIVE WD40         EA         (9.00 OZ CN )         2           01GL00014         CLEANING COMPOUND         EA         (1.00 GL CO )         2	N/MCN         Nomenclature         U/I         Unit Of Use         GSL Qty         UBL Qty           013534799         HYDRAULIC FLUID,AUT         QT         (1.00 QT CN )         12         48           014386076         LUBRICATING OIL,ENG         QT         (1.00 QT CN )         24         48           014386082         LUBRICATING OIL,ENG         CN         (5.00 GL CN )         4         4           014413218         ANTIFREEZE         GL         (1.00 GL CN )         12         24           014413221         ANTIFREEZE         CO         (5.00 GL CO )         2         4           01GL00006         CORROSION PREVENTIVE WD40         EA         (9.00 OZ CN )         2         0           01GL00014         CLEANING COMPOUND         EA         (1.00 GL CO )         2         0

(1.00 QT CN )

2

0

4X



## Fort Carson 1/3 ADA BATTERY 3RD ACR PO Activity Authorized Use List



NS:	N/MCN	Nomenclature U/I	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001116254	HYDRAULIC FLUID,FIR	GL	(1.00 GL CN )	0	5	36
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	0	1	36
681	002010906	ALCOHOL.DENATURED	РТ	(1.00 PT CN )	0	6	36
915	002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	8	12	33
915	002617899	PENETRATING OIL VV-P-	РТ	(1.00 PT CN )	0	2	36
803	008490071	GASKET CEMENT	TU	(1.50 OZ TU )	2	0	4X
685	008807616	SILICONE COMPOUND	TU	(8.00 OZ TU )	0	3	36
803	008893534	TAPE, ANTISEIZING	EA	(1.00 OZ SP )	2	4	4X
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	6	12	36
915	009354018	GREASE MOLYBDENUM DIS	CA	(14.0 OZ CT )	0	20	36
110	)9359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	0	10	36
685	009652332	CARBON REMOV 5 GL CN	CN	(5.00 GL CN )	0	1	36
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	2	6	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	2	0	36
915	010569047	DAMPING FLUID	CN	(8.00 LB CN )	1	1	36
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	0	2	36
915	011773988	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	12	0	36
915	011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	0	6	36
915	011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	3	0	36
108	012763638	POLYURETHANE COATIN	QТ	(1.00 QT CN )	6	0	4X
915	013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	8	24	36
915	014386076	LUBRICATING OIL,ENG	QТ	(1.00 QT CN )	24	48	36
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	6	15	36
<del></del> 685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	4	15	36
585	014413221	ANTIFREEZE	СО	(5.00 GL CO )	4	5	36



# Fort Carson 1/3 ADA BATTERY 3RD ACR PO Activity Authorized Use List



NSN / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
803 01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	2	0	4X
793 01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	1	0	2E
793 01GL00028	GLASS CLEANER	вт	(16.0 OZ BT )	6	0	2E

#### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

•	Aboveground Storage Tank	Convault
•	Indoor Maintenance Facility	Sorbent Materials
•	Storage Areas	Sorbent Materials
•	Outdoor New Product Storage Area	Sorbent Materials
•	Battery Storage Area	Sorbent Materials
•	Mobile Storage	Sorbent Materials

#### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

#### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.

• Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

#### 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

#### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

#### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



### **SPILL REPORT FORM**

UNIT:			
DATE/TIME: PHONE:			
1.	The	following information is needed in the event of a POL or Hazardous Substance Spill:	
	A.	Name and phone number of person discovering spill	
	B.	Date and Time spill occurred/	
	C.	Location of Spill	
	D.	Type of material spilled	
		Estimated Quantity of material spilled (Gallons)	
		Cause of spill	
	G.	Affected resources or facilities	
	Н.	Did spilled material enter any Drains or Ditches? Yes No	
	I.	Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended	
	J.	Description of clean-up or other remedial action taken	
2.		IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or any amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	
3.	The	The DECAM POC for this report and clearance is at	
FC	fori	n 1200	

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#### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

ATTACHMENT 1 BUILDING 2992

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 2992.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the 1/3rd ACR.

## 1.3 FUNCTION OF BUILDING

The building is being used as a vehicle maintenance shop.

## 1.4 LOCATION OF BUILDING

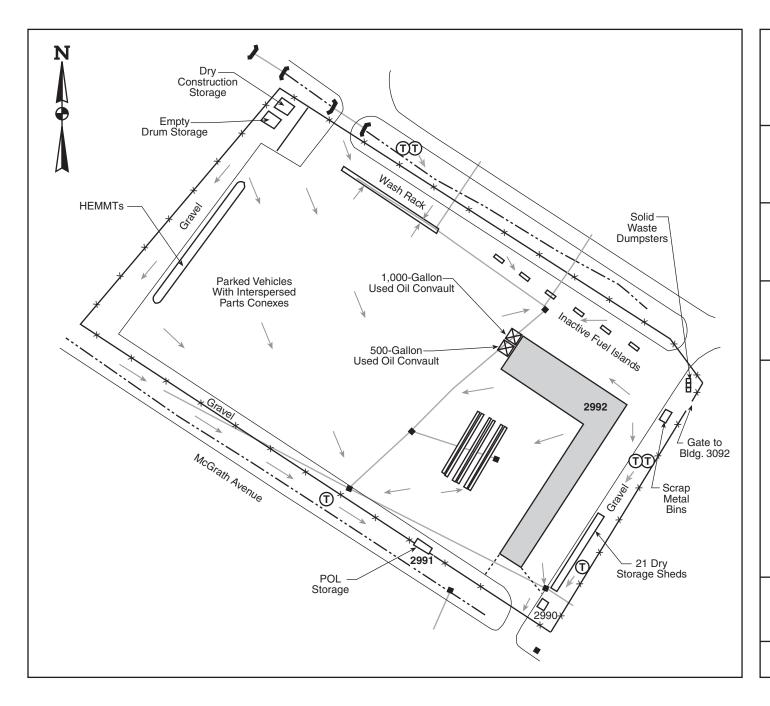
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the 1/3rd ACR.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 2992 1/3 ACR Vehicle Maintenance Shop Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



X X Fence

**Tank Location** 

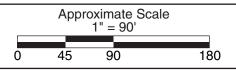
Pole-Mounted Transformer

Storm Drain

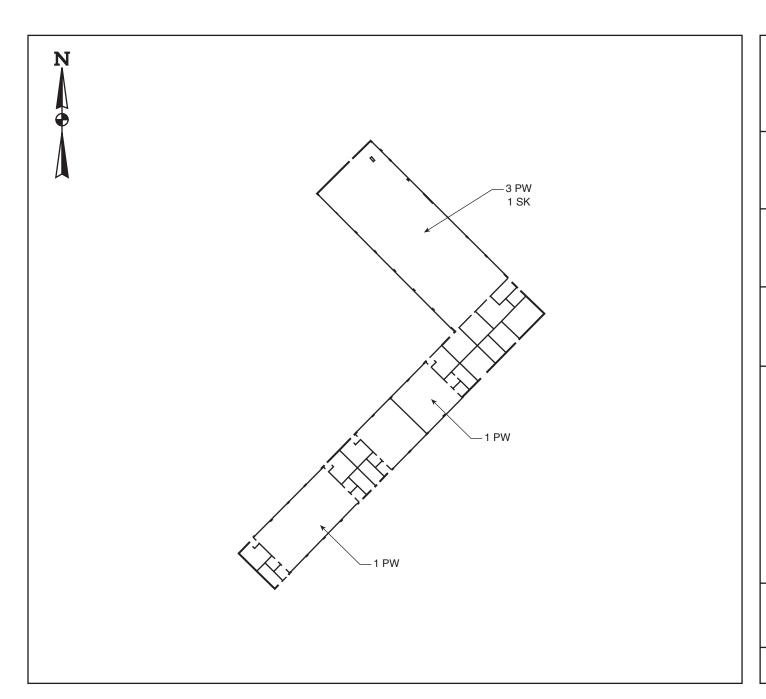
Drainage Ditch/Culvert

Storm Sewer Line

Direction of Flow



January 2004



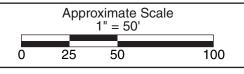
Building 2992 1/3 ACR Vehicle Maintenance Shop Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



PW Parts Washer SK Spill Kit



January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas

Table 2-1 presents a prediction of the total quantity of POL, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Few hazardous substances are stored at the building. The inventory presented in List 2-1 includes materials stored/used at both the 1/3 ACR facilities, Buildings 2992 and 3092. POL stored at this building include:

Used Oil

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	West
AST No. 001	Used Oil	Tank Overflow	25	25	West
AST No. 001	Used Oil	Leakage	100	< 1	West
AST No. 002	Used Oil	Rupture	500	500	West
AST No. 002	Used Oil	Tank Overflow	25	25	West
AST No. 002	Used Oil	Leakage	50	<1	West
Maintenance Facility	POL/Hazardous Substances	Rupture	5	5	Not Applicable
Maintenance Facility	POL/Hazardous Substances	Leakage	1	<1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	< 1	Not Applicable
Storage Areas	POL	Rupture	5	5	Not Applicable
Storage Areas	POL	Leakage	1	<1	Not Applicable
Storage Areas	Hazardous Substances	Rupture	5	5	Not applicable
Storage Areas	Hazardous Substances	Leakage	1	< 1	Not Applicable

## LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson 1/3 ACR POL Activity Authorized Use List



Building # 3092

NSN / MCN		Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class	
801	000793754	ENAMEL	PT	(1.00 PT CN )	3	0	4X	
915	001116254	HYDRAULIC FLUID,FIR	GL	(1.00 GL CN )	48	84	36	
915	001116256	HYDRAULIC FLUID,FIR	ŢQ	(1.00 QT CN )	24	72	36	
915	001178791	LUBRICATING OIL,ENG	PT	(1.00 PT CN )	6	12	36	
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	10	36	36	
681	002010906	ALCOHOL, DENATURED	PT	(1.00 PT CN )	0	24	36	
915	002234004	GREASE,MOLYBDENUM D	CN	(6.50 LB CN )	4	12	36	
915	002234134	HYDRAULIC FLUID ACFT/	GL	(1.00 GL CN )	0	6	36	
685	002246657	CLEANING COMP RIFLE B	CN	(8.00 OZ CN )	1	3	36	
685	002271887	CLEANING COMPOUND 1 Q	QТ	(1.00 QT CN )	2	6	36	
)5	002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	12	24	33	
264	002565526	LUBRICANT, TIRE AND RIM	QТ	(1.00 QT CN )	1	4	9K	
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	12	24	36	
915	002718427	LUBRICATING OIL,GEN	CN	(4.00 OZ CN )	2	0	36	
915	002732389	LUB OIL GP VV-L-800 M	CN	(4.00 OZ CN )	2	0	33	
801	002906983	ENAMEL, GLOSS WHITE	PT	(1.00 PT CN )	3	0	4X	
915	004022372	LUB OIL ICE SUB ZERO	CN	(5.00 GL CN )	1	1	36	
681	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	2	0	36	
801	005825382	ENAMEL, FLAT BLACK	PT	(1.00 PT CN )	12	0	4X	
915	006574959	HYDRAULIC FLUID,AUT	CN	(5.00 GL CN )	0	2	36	
801	007219743	ENAMEL, RED	PT	(1.00 PT CN )	3	0	4X	
801	007219744	ENAMEL, YELLOW	РТ	(1.00 PT CN )	3	0	4X	
801	008489272	ENAMEL, LUSTERLESS OD	PT	(1.00 PT CN )	3	0	4X	
903 803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	15	4X	
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	24	36	36	



# Fort Carson 1/3 ACR POL Activity Authorized Use List



Building # 3092

NSN / MCN		Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class	
915	009354018	GREASE MOLYBDENUM DIS	CA	(14.0 OZ CT )	10	0	36	
915	009359807	HYDRAULIC FLUID PB PR	QT	(1.00 QT CN )	12	24	36	
915	009359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	12	18	36	
915	009857099	LUB OIL ATE MIL-L-236	QT	(1.00 QT CN )	96	312	33	
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	6	24	36	
291	00GL00073	CYLINDER, ENGINE STARTING	EA	(20.0 OZ CT )	0	24	9K	
915	010355392	LUBRICATING OIL,GEA	QT	(1.00 QT CN )	24	24	36	
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	5	5	36	
915	010536688	CLEANER,LUBRICANT A	GL	(1.00 GL CN )	2	10	36	
915	010569047	DAMPING FLUID	CN	(8.00 LB CN )	2	2	36	
P15	011029455	BRAKE FLUID,AUTOMOT	GL	(1.00 GL CN )	2	6	36	
915	011773988	LUBRICATING OIL,ENG	QΤ	(1.00 QT CN )	24	96	36	
915	011977689	GREASE, AUTOMOTIVE A	CN	(6.50 LB CN )	1	15	36	
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	50	100	36	
915	013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	48	60	36	
915	014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	60	156	36	
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	12	36	36	
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	24	120	36	
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	12	36	36	
915	014607526	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	24	156	36	
915	014607536	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	12	36	36	
793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	12	0	2E	
801	01GL00048	POLYURETHANE COATING	QT	(1.00 QT CN )	6	0	4X	

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

- Indoor Maintenance Facility......Sorbent Materials

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

## **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UN	NIT:		
DA	ATE	C/TIME:/	PHONE:
1.	The	e following information is need	ded in the event of a POL or Hazardous Substance Spill:
	A.	Name and phone number of J	person discovering spill
	В.	Date and Time spill occurred	1
	C.	Location of Spill	
	D.	Type of material spilled	
	E.	Estimated Quantity of materi	al spilled (Gallons)
	F.	Cause of spill	
	G.	Affected resources or facilities	es
	H.	Did spilled material enter any	y Drains or Ditches? Yes No
	I.		of contaminated soil, dry sweep and/or other clean-up materials
	J.	Description of clean-up or ot	her remedial action taken
2.		*	than 5 gallons, or covering more than 100 square feet, and/or any must be reported to the Fort Carson, Fire Department at 911.
3.	Th	ne DECAM POC for this report	t and clearance is at
FC	' for	m 1200	

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## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

ATTACHMENT 1 BUILDING 3092

## 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 3092.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the 1/3rd ACR.

## 1.3 FUNCTION OF BUILDING

The building is being used as a motor pool.

## 1.4 LOCATION OF BUILDING

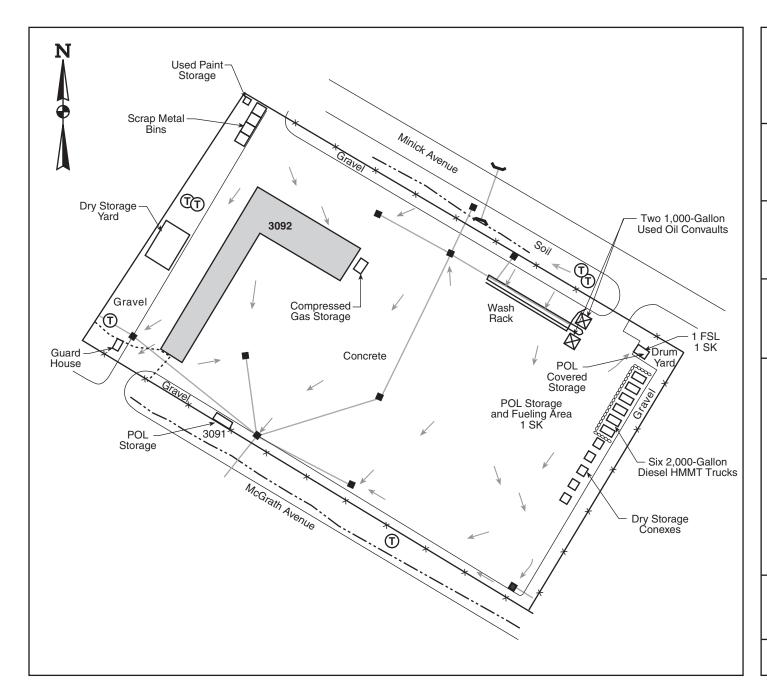
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the 1/3rd ACR.

## 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 3092 1/3 ACR Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

FSL Flammable Storage Locker

SK Spill Kit

X X Fence

T Pole-Mounted Transformer

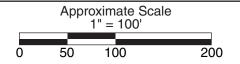
Storm Drain

--- Drainage Ditch/Culvert

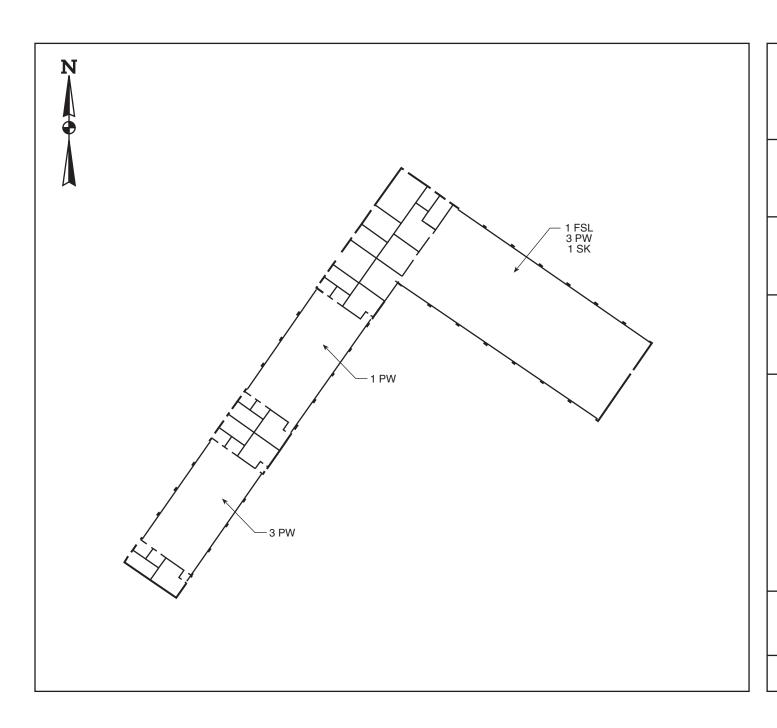
— Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 3092 1/3 ACR Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

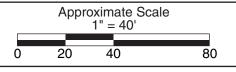
# Storage Location Map



PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility
- Outdoor Spent Product Storage Facility
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the building are presented in List 2-1. This list includes materials used at both 1/3 ACR facilities, Buildings 2992 and 3092. POL stored at this building include:

- Used Oil
- Diesel

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	North
AST No. 001	Used Oil	Tank Overflow	25	25	North
AST No. 001	Used Oil	Leakage	100	< 1	North
AST No. 002	Used Oil	Rupture	1,000	1,000	North
AST No. 002	Used Oil	Tank Overflow	25	25	North
AST No. 002	Used Oil	Leakage	100	< 1	North
Mobile Storage	Diesel	Rupture	2,000 ea.	2,000 ea.	Southwest
Mobile Storage	Diesel	Tank Overflow	25	25	Southwest
Mobile Storage	Diesel	Leakage	100	< 1	Southwest
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Available
Parts Washers	Hazardous Substance	Leakage	5	< 1	Not Available
Storage Areas	Hazardous Substance	Rupture	5	5	Not Available
Storage Areas	Hazardous Substance	Leakage	1	< 1	Not Available
Storage Areas	POL	Rupture	5	5	Not Available
Storage Areas	POL	Leakage	1	<1	Not Available
Outdoor New Storage	POL	Rupture	5	5	Soutwest
Outdoor New Storage	POL	Leakage	1	<1	Soutwest
Outdoor Spent Storage	Hazardous Substance	Rupture	5	5	Soutwest
Outdoor Spent Storage	Hazardous Substance	Leakage	1	< 1	Soutwest

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## LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson 1/3 ACR POL Activity Authorized Use List



Building # 3092

NSN / MCN		Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class	
801	000793754	ENAMEL	PT	(1.00 PT CN )	3	0	4X	
915	001116254	HYDRAULIC FLUID,FIR	GL	(1.00 GL CN )	48	84	36	
915	001116256	HYDRAULIC FLUID,FIR	ŢQ	(1.00 QT CN )	24	72	36	
915	001178791	LUBRICATING OIL,ENG	PT	(1.00 PT CN )	6	12	36	
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	10	36	36	
681	002010906	ALCOHOL, DENATURED	PT	(1.00 PT CN )	0	24	36	
915	002234004	GREASE,MOLYBDENUM D	CN	(6.50 LB CN )	4	12	36	
915	002234134	HYDRAULIC FLUID ACFT/	GL	(1.00 GL CN )	0	6	36	
685	002246657	CLEANING COMP RIFLE B	CN	(8.00 OZ CN )	1	3	36	
685	002271887	CLEANING COMPOUND 1 Q	QТ	(1.00 QT CN )	2	6	36	
)5	002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	12	24	33	
264	002565526	LUBRICANT, TIRE AND RIM	QТ	(1.00 QT CN )	1	4	9K	
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	12	24	36	
915	002718427	LUBRICATING OIL,GEN	CN	(4.00 OZ CN )	2	0	36	
915	002732389	LUB OIL GP VV-L-800 M	CN	(4.00 OZ CN )	2	0	33	
801	002906983	ENAMEL, GLOSS WHITE	PT	(1.00 PT CN )	3	0	4X	
915	004022372	LUB OIL ICE SUB ZERO	CN	(5.00 GL CN )	1	1	36	
681	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	2	0	36	
801	005825382	ENAMEL, FLAT BLACK	PT	(1.00 PT CN )	12	0	4X	
915	006574959	HYDRAULIC FLUID,AUT	CN	(5.00 GL CN )	0	2	36	
801	007219743	ENAMEL, RED	PT	(1.00 PT CN )	3	0	4X	
801	007219744	ENAMEL, YELLOW	РТ	(1.00 PT CN )	3	0	4X	
801	008489272	ENAMEL, LUSTERLESS OD	PT	(1.00 PT CN )	3	0	4X	
903 803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	15	4X	
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	24	36	36	



# Fort Carson 1/3 ACR POL Activity Authorized Use List



Building # 3092

NS	N / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	009354018	GREASE MOLYBDENUM DIS	CA	(14.0 OZ CT )	10	0	36
915	009359807	HYDRAULIC FLUID PB PR	QT	(1.00 QT CN )	12	24	36
915	009359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	12	18	36
915	009857099	LUB OIL ATE MIL-L-236	QT	(1.00 QT CN )	96	312	33
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	6	24	36
291	00GL00073	CYLINDER, ENGINE STARTING	EA	(20.0 OZ CT )	0	24	9K
915	010355392	LUBRICATING OIL,GEA	QT	(1.00 QT CN )	24	24	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	5	5	36
915	010536688	CLEANER,LUBRICANT A	GL	(1.00 GL CN )	2	10	36
915	010569047	DAMPING FLUID	CN	(8.00 LB CN )	2	2	36
915	011029455	BRAKE FLUID, AUTOMOT	GL	(1.00 GL CN )	2	6	36
915	011773988	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	24	96	36
915	011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	1	15	36
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	50	100	36
915	013534799	HYDRAULIC FLUID,AUT	QΤ	(1.00 QT CN )	48	60	36
915	014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	60	156	36
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	12	36	36
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	24	120	36
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	12	36	36
915	014607526	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	24	156	36
915	014607536	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	12	36	36
793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	12	0	<b>2</b> E
801	01GL00048	POLYURETHANE COATING	QT	(1.00 QT CN )	6	0	4X

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

## 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.

• Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

## **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:	
DATE/TIME: PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materia expended	ls
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	any
3. The DECAM POC for this report and clearance is at	-
FC form 1200	

## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building numbers for which this plan has been developed are Building 3191 and Building 3192.

#### 1.2 CURRENT OCCUPANT

The buildings are currently occupied by the 2/3rd ACR.

## 1.3 FUNCTION OF BUILDING

The buildings are being used as a motor pool.

## 1.4 LOCATION OF BUILDING

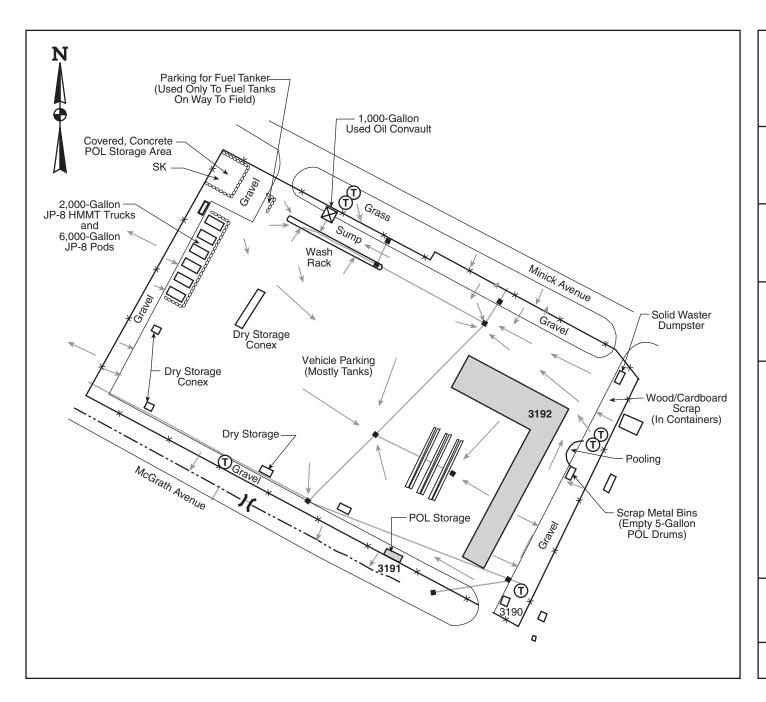
The buildings are located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at these buildings is the Environmental Protection Officer (EPO) for the 2/3rd ACR.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around these buildings, as well as the locations of POL and hazardous substance storage in and around the buildings, are provided in the pages following Section 1.0.



Building 3191 and 3192 2/3rd ACR Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

SK Spill Kit

X X Fence

Pole-Mounted Transformer

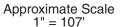
Storm Drain

--- Drainage Ditch/Culvert

Storm Sewer Line

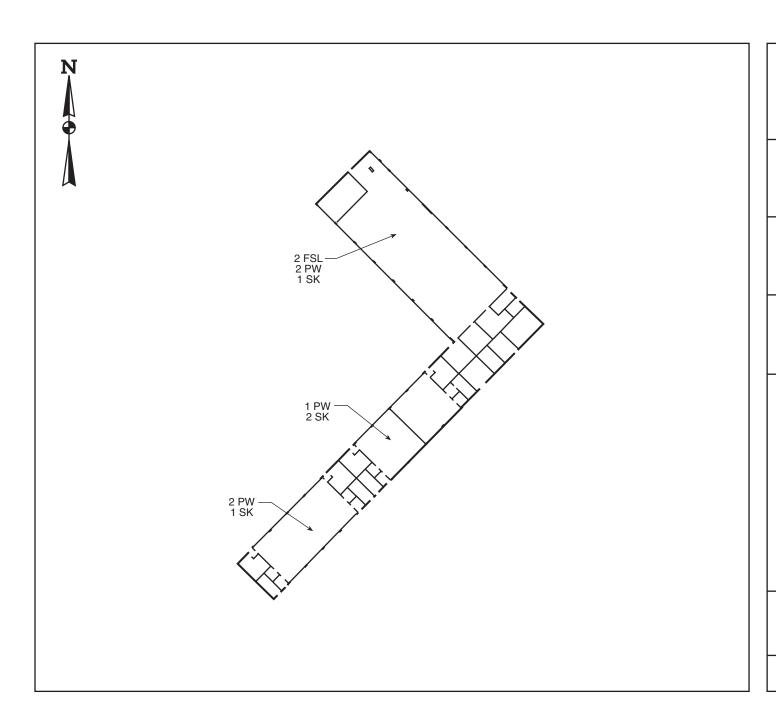
Direction of Flow

Sandbag Containment





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Building 3192 2/3rd ACR Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

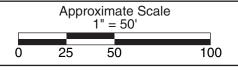
## Storage Location Map



PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at these buildings that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility
- Mobile Storage

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at the buildings are presented in List 2-1. The inventory includes materials used/stored at both 2/3 ACR facilities (Buildings 3191/3192 and Building 3292). POL stored at this building include:

- Used Oil
- JP-8

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	Southwest
AST No. 001	Used Oil	Tank Overflow	25	25	Southwest
AST No. 001	Used Oil	Leakage	100	< 1	Southwest
Mobile Storage	JP-8	Rupture	2,000 ea.	2,000 ea.	Southeast
Mobile Storage	JP-8	Tank Overflow	25	25	Southeast
Mobile Storage	JP-8	Leakage	100	< 1	Southeast
Mobile Storage	JP-8	Rupture	6,000 ea.	6,000 ea.	Southeast
Mobile Storage	JP-8	Tank Overflow	25	25	Southeast
Mobile Storage	JP-8	Leakage	100	< 1	Southeast
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	< 1	Not Applicable
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	<1	Not Applicable
Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Storage Areas	Hazardous Substance	Leakage	1	< 1	Not Applicable
Outdoor New Storage	POL	Rupture	5	5	Southeast
Outdoor New Storage	POL	Leakage	1	< 1	Southeast

## LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY





Building # 3191

NS	N / MCN Nomenclature		U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	15	4X
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	24	24	36
915	009359807	HYDRAULIC FLUID PB PR	QT	(1.00 QT CN )	12	24	36
915	009359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	12	18	36
804	009386860	ADHESIVE	CN	(24.0 OZ CN )	0	4	2B
915	009857099	LUB OIL ATE MIL-L-236	QT	(1.00 QT CN )	96	312	33
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	6	30	36
264	00GL00034	BONDING COMPOUND.TIRE	CN	(1.00 PT CN )	1	1	9K
915	010355392	LUBRICATING OIL.GEA	QT	(1.00 QT CN )	24	24	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	5	5	36
91:	10536688	CLEANER.LUBRICANT A	GL	(1.00 GL CN )	2	14	36
915	010569047	DAMPING FLUID	CN	(8.00 LB CN )	2	2	36
915	011029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	2	6	36
915	011773988	LUBRICATING OIL.ENG	QТ	(1.00 QT CN )	24	96	36
915	011977689	GREASE.AUTOMOTIVE A	CN	(6.50 LB CN )	4	12	36
915	011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	50	100	36
803	012129622	LOCKNUT.TUBE FITTIN	TU	(3.00 OZ TU )	4	4	9В
915	013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	48	60	36
915	014386076	LUBRICATING OIL.ENG	QT	(1.00 QT CN )	60	156	. 36
915	014386082	LUBRICATING OIL.ENG	CN	(5.00 GL CN )	12	36	36
585	014413218	ANTIFREEZE	GL	(1.00 GL CN )	24	120	36
585	014413221	ANTIFREEZE	СО	(5.00 GL CO )	12	36	36
)15	014607526	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	24	156	36
— )15	014607536	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	12	36	36
793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	12	12	2E





Building # 3191

N / MCN Nomenclature		U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
000793754	ENAMEL	PT	(1.00 PT CN )	3	0	4X
001116254	HYDRAULIC FLUID.FIR	GL	(1.00 GL CN )	48	84	36
001116256	HYDRAULIC FLUID.FIR	QT	(1.00 QT CN )	24	72	36
001178791	LUBRICATING OIL,ENG	PT	(1.00 PT CN )	6	12	36
001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	10	36	36
002010906	ALCOHOL, DENATURED	PT	(1.00 PT CN )	0	24	36
002232739	ACETONE TECH LIQ FORM	PT	(1.00 PT CN )	1	1	36
002234004	GREASE,MOLYBDENUM D	CN	(6.50 LB CN )	4	12	36
002234134	HYDRAULIC FLUID ACFT/	GL	(1.00 GL CN )	0	6	36
002246657	CLEANING COMP RIFLE B	CN	(8.00 OZ CN )	1	3	36
02271887	CLEANING COMPOUND 1 Q	QT	(1.00 QT CN )	2	6	36
002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	12	24	33
002565526	LUBRICANT, TIRE AND RIM	QT	(1.00 QT CN )	1	3	9K
002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	12	24	36
002718427	LUBRICATING OIL,GEN	CN	(4.00 OZ CN )	2	0	36
002732389	LUB OIL GP VV-L-800 M	CN	(4.00 OZ CN )	2	0	33
002906983	ENAMEL. GLOSS WHITE	PT	(1.00 PT CN )	3	0	4X
004022372	LUB OIL ICE SUB ZERO	CN	(5.00 GL CN )	1	0	36
005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	2	0	36
005825382	ENAMEL, FLAT BLACK	PT	(1.00 PT CN )	2	0	4X
005843041	PROPANE	EA	(14.1 OZ CY )	0	48	36
006574959	HYDRAULIC FLUID.AUT	CN	(5.00 GL CN )	0	2	36
007219743	ENAMEL, RED	PT	(1.00 PT CN )	3	0	4X
007219744	ENAMEL, YELLOW	РТ	(1.00 PT CN )	3	0	4X
008489272	ENAMEL, LUSTERLESS OD	PT	(1.00 PT CN )	3	0	4X
	001116254 001116256 001178791 001866668 002010906 002232739 002234004 002234134 002246657 02271887 002526383 002565526 002617899 002718427 002732389 002906983 004022372 005437415 005825382 005843041 006574959	000793754         ENAMEL           001116254         HYDRAULIC FLUID.FIR           001178791         LUBRICATING OIL.ENG           001866668         LUBOIL MIL-L-2104 OE/           002010906         ALCOHOL.DENATURED           002232739         ACETONE TECH LIQ FORM           002234104         GREASE, MOLYBDENUM D           002234134         HYDRAULIC FLUID ACFT/           002246657         CLEANING COMPOUND I Q           002526383         HYDRAULIC FLUID ACFT/           002565526         LUBRICANT, TIRE AND RIM           002617899         PENETRATING OIL VV-P-           002718427         LUBRICATING OIL.GEN           002732389         LUB OIL GP VV-L-800 M           002906983         ENAMEL, GLOSS WHITE           004022372         LUB OIL ICE SUB ZERO           005437415         ALCOHOL DENATURED GR           005825382         ENAMEL, FLAT BLACK           005843041         PROPANE           006574959         HYDRAULIC FLUID.AUT           007219743         ENAMEL, RED           007219744         ENAMEL, YELLOW	000793754         ENAMEL         PT           001116254         HYDRAULIC FLUID.FIR         GL           001116256         HYDRAULIC FLUID.FIR         QT           001178791         LUBRICATING OIL.ENG         PT           001866668         LUBOIL MIL-L-2104 OE/         CN           002010906         ALCOHOL.DENATURED         PT           002232739         ACETONE TECH LIQ FORM         PT           002234004         GREASE.MOLYBDENUM D         CN           002234134         HYDRAULIC FLUID ACFT/         GL           002246657         CLEANING COMPOUND I Q         QT           002526383         HYDRAULIC FLUID ACFT/         QT           002526383         HYDRAULIC FLUID ACFT/         QT           002517899         PENETRATING OIL VV-P-         PT           002617899         PENETRATING OIL JEGEN         CN           0027323389         LUB OIL GP VV-L-800 M         CN           002906983         ENAMEL GLOSS WHITE         PT           004022372         LUB OIL ICE SUB ZERO         CN           005825382         ENAMEL FLAT BLACK         PT           005843041         PROPANE         EA           006574959         HYDRAULIC FLUID.AUT         CN	000793754         ENAMEL         PT         (1.00 PT CN )           001116254         HYDRAULIC FLUID.FIR         GL         (1.00 QT CN )           001116256         HYDRAULIC FLUID.FIR         QT         (1.00 QT CN )           001178791         LUBRICATING OIL.ENG         PT         (1.00 PT CN )           001866668         LUBOIL MIL-L-2104 OE/         CN (5.00 GL CN )           0022010906         ALCOHOL.DENATURED         PT (1.00 PT CN )           002234739         ACETONE TECH LIQ FORM         PT (1.00 PT CN )           002234004         GREASE.MOLYBDENUM D         CN (6.50 LB CN )           002234134         HYDRAULIC FLUID ACFT/         GL (1.00 GL CN )           002246657         CLEANING COMPRIFLE B         CN (8.00 OZ CN )           002526383         HYDRAULIC FLUID ACFT/         QT (1.00 QT CN )           002556383         HYDRAULIC FLUID ACFT/         QT (1.00 QT CN )           00257899         PENETRATING OIL VV-P-         PT (1.00 PT CN )           002718427         LUBRICATING OIL.GEN         CN (4.00 OZ CN )           002732389         LUB OIL GP VV-L-800 M         CN (4.00 OZ CN )           004022372         LUB OIL GE SUB ZERO         CN (5.00 GL CN )           005825382         ENAMEL, FLAT BLACK         PT (1.00 PT CN ) <td>000793754         ENAMEL         PT         (1.00 PT CN )         3           001116254         HYDRAULIC FLUID.FIR         GL         (1.00 GL CN )         48           001116256         HYDRAULIC FLUID.FIR         QT         (1.00 QT CN )         24           001178791         LUBRICATING OIL.ENG         PT         (1.00 PT CN )         6           001866668         LUBOIL.MIL-L-2104 OE/         CN         (5.00 GL CN )         10           002232739         ACETONE TECH LIQ FORM         PT         (1.00 PT CN )         1           002234104         GREASE,MOLYBDENUM D         CN         (6.50 LB CN )         4           002234134         HYDRAULIC FLUID ACFTY         GL         (1.00 GL CN )         0           002246657         CLEANING COMPRIFLE B         CN         (8.00 OZ CN )         1           32271887         CLEANING COMPOUND I Q         QT         (1.00 QT CN )         12           002526383         HYDRAULIC FLUID ACFT/         QT         (1.00 QT CN )         12           002565526         LUBRICANT, TIRE AND RIM         QT         (1.00 QT CN )         1           002718427         LUB OIL GP VV-L-800 M         CN         (4.00 OZ CN )         2           002732389         <td< td=""><td>  000793754   ENAMEL</td></td<></td>	000793754         ENAMEL         PT         (1.00 PT CN )         3           001116254         HYDRAULIC FLUID.FIR         GL         (1.00 GL CN )         48           001116256         HYDRAULIC FLUID.FIR         QT         (1.00 QT CN )         24           001178791         LUBRICATING OIL.ENG         PT         (1.00 PT CN )         6           001866668         LUBOIL.MIL-L-2104 OE/         CN         (5.00 GL CN )         10           002232739         ACETONE TECH LIQ FORM         PT         (1.00 PT CN )         1           002234104         GREASE,MOLYBDENUM D         CN         (6.50 LB CN )         4           002234134         HYDRAULIC FLUID ACFTY         GL         (1.00 GL CN )         0           002246657         CLEANING COMPRIFLE B         CN         (8.00 OZ CN )         1           32271887         CLEANING COMPOUND I Q         QT         (1.00 QT CN )         12           002526383         HYDRAULIC FLUID ACFT/         QT         (1.00 QT CN )         12           002565526         LUBRICANT, TIRE AND RIM         QT         (1.00 QT CN )         1           002718427         LUB OIL GP VV-L-800 M         CN         (4.00 OZ CN )         2           002732389 <td< td=""><td>  000793754   ENAMEL</td></td<>	000793754   ENAMEL





Building #

3191

NSN / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty Supply Class	
793 01GL00028	GLASS CLEANER	ВТ	(16.0 OZ BT )	4	24	2E
801 01GL00048	POLYURETHANE COATING	QT	(1.00 QT CN )	6	0	4X

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

## 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

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In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

## **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UN	IT:	
DA	TE/	TIME: PHONE:
1.	The	following information is needed in the event of a POL or Hazardous Substance Spill:
	A.	Name and phone number of person discovering spill
	B.	Date and Time spill occurred/
	C.	Location of Spill
	D.	Type of material spilled
	E.	Estimated Quantity of material spilled (Gallons)
	F.	Cause of spill
	G.	Affected resources or facilities
	Н.	Did spilled material enter any Drains or Ditches? Yes No
	I.	Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended
	J.	Description of clean-up or other remedial action taken
2.		W FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or any ount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.
3.	The	e DECAM POC for this report and clearance is at
FC	fori	n 1200

## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

ATTACHMENT 1 BUILDING 3292

## 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 3292.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the 2/3rd ACR.

## 1.3 FUNCTION OF BUILDING

The building is being used as a motor pool.

## 1.4 LOCATION OF BUILDING

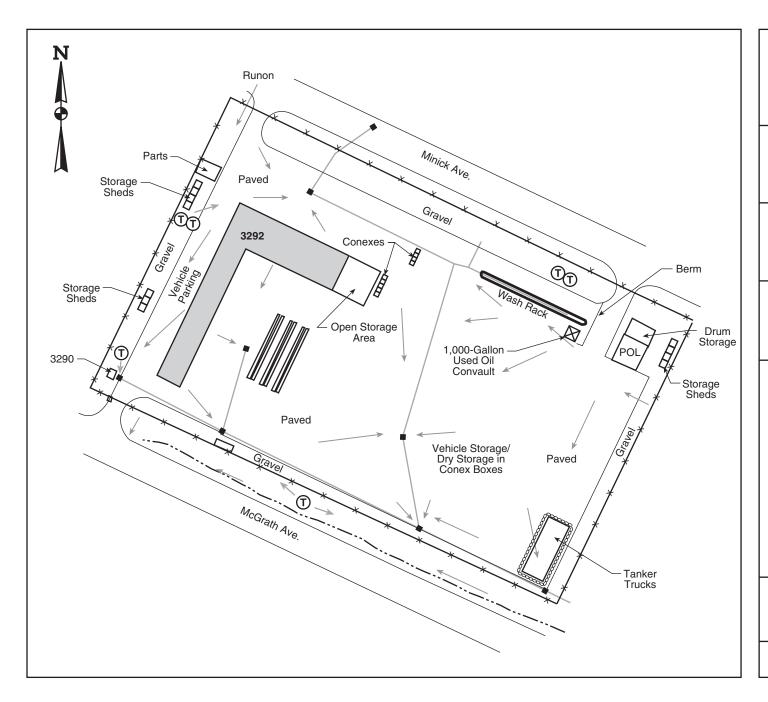
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL spill prevention at this building is the Environmental Protection Officer (EPO) for the 2/3rd ACR.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL storage in and around the building, are provided in the pages following Section 1.0.



Building 3292 2/3rd ACR Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

SK Spill Kit

X X Fence

X Tank Location

Pole-Mounted Transformer

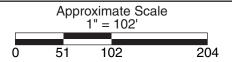
Storm Drain

---- Drainage Ditch/Culvert

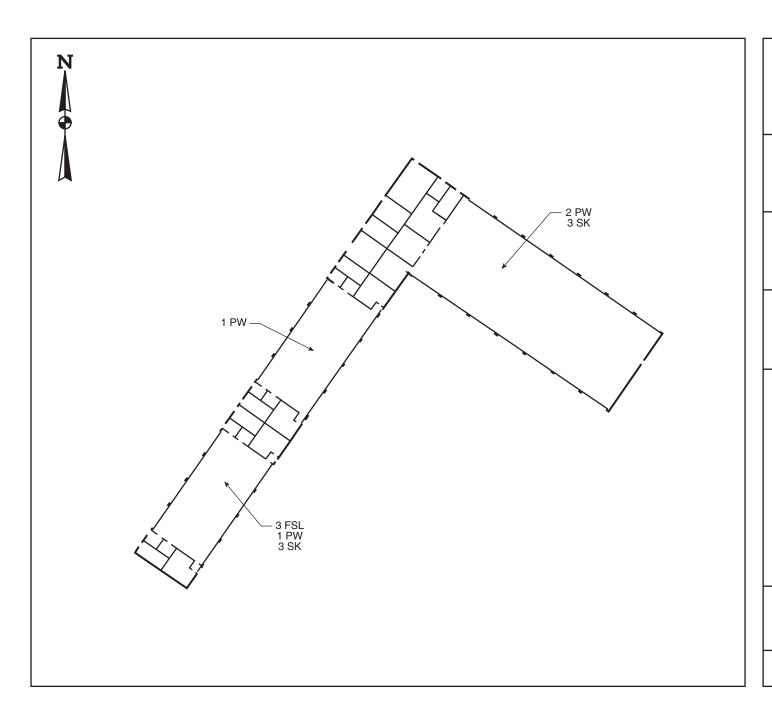
Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004



Building 3292 2/3rd ACR Motor Pool Fort Carson, CO

## Hazardous Materials Inventory

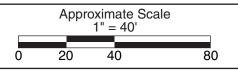
## Storage Location Map



PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit



January 2004

2.0 INVENTORY

#### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility
- Storage Areas
- Outdoor New Product Storage Facility

Table 2-1 presents a prediction of the total quantity of POL, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Few hazardous substances are stored at the building. The inventory presented as List 2-1 includes materials/hazardous substances stored at both 2/3 ACR facilities (Buildings 3191/3192 and 3292). POL stored at this building include:

Used Oil

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Used Oil	Rupture	1,000	1,000	East
AST No. 001	Used Oil	Tank Overflow	25	25	East
AST No. 001	Used Oil	Leakage	100	< 1	East
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	<1	Not Applicable
Storage Areas	Hazardous Substance	Rupture	5	5	Not Available
Storage Areas	Hazardous Substance	Leakage	1	< 1	Not Available
Parts Washers	Hazardous Substance	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substance	Leakage	5	< 1	Not Applicable
Storage Areas	POL	Rupture	5	5	Not Applicable
Storage Areas	POL	Leakage	1	< 1	Not Applicable
Outdoor New Storage	POL	Rupture	5	5	Southwest
Outdoor New Storage	POL	Leakage	1	< 1	Southwest

## LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY





Building # 3191

NS	N/MCN Nomenclature		U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
803	008893534	TAPE,ANTISEIZING	EA	(1.00 OZ SP )	1	15	4X
685	009262275	CLEANING COMPOUND WIN	РТ	(1.00 PT BT )	24	24	36
915	009359807	HYDRAULIC FLUID PB PR	QT	(1.00 QT CN )	12	24	36
915	009359808	HYDRAULIC FLUID PB PR	GL	(1.00 GL CN )	12	18	36
804	009386860	ADHESIVE	CN	(24.0 OZ CN )	0	4	2B
915	009857099	LUB OIL ATE MIL-L-236	QT	(1.00 QT CN )	96	312	33
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	6	30	36
264	00GL00034	BONDING COMPOUND.TIRE	CN	(1.00 PT CN )	1	1	9K
915	010355392	LUBRICATING OIL.GEA	QT	(1.00 QT CN )	24	24	36
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	5	5	36
91:	10536688	CLEANER.LUBRICANT A	GL	(1.00 GL CN )	2	14	36
915	010569047	DAMPING FLUID	CN	(8.00 LB CN )	2	2	36
915	011029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	2	6	36
915	011773988	LUBRICATING OIL.ENG	QТ	(1.00 QT CN )	24	96	36
915	011977689	GREASE.AUTOMOTIVE A	CN	(6.50 LB CN )	4	12	36
915	011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	50	100	36
803	012129622	LOCKNUT.TUBE FITTIN	TU	(3.00 OZ TU )	4	4	9B
915	013534799	HYDRAULIC FLUID.AUT	QT	(1.00 QT CN )	48	60	36
915	014386076	LUBRICATING OIL,ENG	QT	(1.00 QT CN )	60	156	. 36
915	014386082	LUBRICATING OIL.ENG	CN	(5.00 GL CN )	12	36	36
585	014413218	ANTIFREEZE	GL	(1.00 GL CN )	24	120	36
585	014413221	ANTIFREEZE	СО	(5.00 GL CO )	12	36	36
)15	014607526	LUBRICATING OIL,ENG	QΤ	(1.00 QT CN )	24	156	36
)15	014607536	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	12	36	36
793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	12	12	2E





Building # 3191

N / MCN Nomenclature		U/I	Unit Of Use	GSL Qty	UBL Qty	Supply Class
000793754	ENAMEL	PT	(1.00 PT CN )	3	0	4X
001116254	HYDRAULIC FLUID.FIR	GL	(1.00 GL CN )	48	84	36
001116256	HYDRAULIC FLUID.FIR	QT	(1.00 QT CN )	24	72	36
001178791	LUBRICATING OIL,ENG	PT	(1.00 PT CN )	6	12	36
001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	10	36	36
002010906	ALCOHOL, DENATURED	PT	(1.00 PT CN )	0	24	36
002232739	ACETONE TECH LIQ FORM	PT	(1.00 PT CN )	1	1	36
002234004	GREASE,MOLYBDENUM D	CN	(6.50 LB CN )	4	12	36
002234134	HYDRAULIC FLUID ACFT/	GL	(1.00 GL CN )	0	6	36
002246657	CLEANING COMP RIFLE B	CN	(8.00 OZ CN )	1	3	36
02271887	CLEANING COMPOUND 1 Q	QT	(1.00 QT CN )	2	6	36
002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	12	24	33
002565526	LUBRICANT, TIRE AND RIM	QT	(1.00 QT CN )	1	3	9K
002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	12	24	36
002718427	LUBRICATING OIL,GEN	CN	(4.00 OZ CN )	2	0	36
002732389	LUB OIL GP VV-L-800 M	CN	(4.00 OZ CN )	2	0	33
002906983	ENAMEL. GLOSS WHITE	PT	(1.00 PT CN )	3	0	4X
004022372	LUB OIL ICE SUB ZERO	CN	(5.00 GL CN )	1	0	36
005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	2	0	36
005825382	ENAMEL, FLAT BLACK	РТ	(1.00 PT CN )	2	0	4X
005843041	PROPANE	EA	(14.1 OZ CY )	0	48	36
006574959	HYDRAULIC FLUID.AUT	CN	(5.00 GL CN )	0	2	36
007219743	ENAMEL, RED	PT	(1.00 PT CN )	3	0	4X
007219744	ENAMEL, YELLOW	РТ	(1.00 PT CN )	3	0	4X
008489272	ENAMEL, LUSTERLESS OD	PT	(1.00 PT CN )	3	0	4X
	001116254 001116256 001178791 001866668 002010906 002232739 002234004 002234134 002246657 02271887 002526383 002565526 002617899 002718427 002732389 002906983 004022372 005437415 005825382 005843041 006574959	000793754         ENAMEL           001116254         HYDRAULIC FLUID.FIR           001178791         LUBRICATING OIL.ENG           001866668         LUBOIL MIL-L-2104 OE/           002010906         ALCOHOL.DENATURED           002232739         ACETONE TECH LIQ FORM           002234104         GREASE, MOLYBDENUM D           002234134         HYDRAULIC FLUID ACFT/           002246657         CLEANING COMPOUND I Q           002526383         HYDRAULIC FLUID ACFT/           002565526         LUBRICANT, TIRE AND RIM           002617899         PENETRATING OIL VV-P-           002718427         LUBRICATING OIL.GEN           002732389         LUB OIL GP VV-L-800 M           002906983         ENAMEL, GLOSS WHITE           004022372         LUB OIL ICE SUB ZERO           005437415         ALCOHOL DENATURED GR           005825382         ENAMEL, FLAT BLACK           005843041         PROPANE           006574959         HYDRAULIC FLUID.AUT           007219743         ENAMEL, RED           007219744         ENAMEL, YELLOW	000793754         ENAMEL         PT           001116254         HYDRAULIC FLUID.FIR         GL           001116256         HYDRAULIC FLUID.FIR         QT           001178791         LUBRICATING OIL.ENG         PT           001866668         LUBOIL MIL-L-2104 OE/         CN           002010906         ALCOHOL.DENATURED         PT           002232739         ACETONE TECH LIQ FORM         PT           002234004         GREASE.MOLYBDENUM D         CN           002234134         HYDRAULIC FLUID ACFT/         GL           002246657         CLEANING COMPOUND I Q         QT           002526383         HYDRAULIC FLUID ACFT/         QT           002526383         HYDRAULIC FLUID ACFT/         QT           002517899         PENETRATING OIL VV-P-         PT           002617899         PENETRATING OIL JEGEN         CN           0027323389         LUB OIL GP VV-L-800 M         CN           002906983         ENAMEL GLOSS WHITE         PT           004022372         LUB OIL ICE SUB ZERO         CN           005825382         ENAMEL FLAT BLACK         PT           005843041         PROPANE         EA           006574959         HYDRAULIC FLUID.AUT         CN	000793754         ENAMEL         PT         (1.00 PT CN )           001116254         HYDRAULIC FLUID.FIR         GL         (1.00 QT CN )           001116256         HYDRAULIC FLUID.FIR         QT         (1.00 QT CN )           001178791         LUBRICATING OIL.ENG         PT         (1.00 PT CN )           001866668         LUBOIL MIL-L-2104 OE/         CN (5.00 GL CN )           0022010906         ALCOHOL.DENATURED         PT (1.00 PT CN )           002234739         ACETONE TECH LIQ FORM         PT (1.00 PT CN )           002234004         GREASE.MOLYBDENUM D         CN (6.50 LB CN )           002234134         HYDRAULIC FLUID ACFT/         GL (1.00 GL CN )           002246657         CLEANING COMPRIFLE B         CN (8.00 OZ CN )           002526383         HYDRAULIC FLUID ACFT/         QT (1.00 QT CN )           002556383         HYDRAULIC FLUID ACFT/         QT (1.00 QT CN )           00257899         PENETRATING OIL VV-P-         PT (1.00 PT CN )           002718427         LUBRICATING OIL.GEN         CN (4.00 OZ CN )           002732389         LUB OIL GP VV-L-800 M         CN (4.00 OZ CN )           004022372         LUB OIL GE SUB ZERO         CN (5.00 GL CN )           005825382         ENAMEL, FLAT BLACK         PT (1.00 PT CN ) <td>000793754         ENAMEL         PT         (1.00 PT CN )         3           001116254         HYDRAULIC FLUID.FIR         GL         (1.00 GL CN )         48           001116256         HYDRAULIC FLUID.FIR         QT         (1.00 QT CN )         24           001178791         LUBRICATING OIL.ENG         PT         (1.00 PT CN )         6           001866668         LUBOIL.MIL-L-2104 OE/         CN         (5.00 GL CN )         10           002232739         ACETONE TECH LIQ FORM         PT         (1.00 PT CN )         1           002234104         GREASE,MOLYBDENUM D         CN         (6.50 LB CN )         4           002234134         HYDRAULIC FLUID ACFTY         GL         (1.00 GL CN )         0           002246657         CLEANING COMPRIFLE B         CN         (8.00 OZ CN )         1           32271887         CLEANING COMPOUND I Q         QT         (1.00 QT CN )         12           002526383         HYDRAULIC FLUID ACFT/         QT         (1.00 QT CN )         12           002565526         LUBRICANT, TIRE AND RIM         QT         (1.00 QT CN )         1           002718427         LUB OIL GP VV-L-800 M         CN         (4.00 OZ CN )         2           002732389         <td< td=""><td>  000793754   ENAMEL</td></td<></td>	000793754         ENAMEL         PT         (1.00 PT CN )         3           001116254         HYDRAULIC FLUID.FIR         GL         (1.00 GL CN )         48           001116256         HYDRAULIC FLUID.FIR         QT         (1.00 QT CN )         24           001178791         LUBRICATING OIL.ENG         PT         (1.00 PT CN )         6           001866668         LUBOIL.MIL-L-2104 OE/         CN         (5.00 GL CN )         10           002232739         ACETONE TECH LIQ FORM         PT         (1.00 PT CN )         1           002234104         GREASE,MOLYBDENUM D         CN         (6.50 LB CN )         4           002234134         HYDRAULIC FLUID ACFTY         GL         (1.00 GL CN )         0           002246657         CLEANING COMPRIFLE B         CN         (8.00 OZ CN )         1           32271887         CLEANING COMPOUND I Q         QT         (1.00 QT CN )         12           002526383         HYDRAULIC FLUID ACFT/         QT         (1.00 QT CN )         12           002565526         LUBRICANT, TIRE AND RIM         QT         (1.00 QT CN )         1           002718427         LUB OIL GP VV-L-800 M         CN         (4.00 OZ CN )         2           002732389 <td< td=""><td>  000793754   ENAMEL</td></td<>	000793754   ENAMEL





Building #

3191

NSN / MCN	Nomenclature	U/I	Unit Of Use	GSL Qty	UBL Qty Supply Class	
793 01GL00028	GLASS CLEANER	ВТ	(16.0 OZ BT )	4	24	2E
801 01GL00048	POLYURETHANE COATING	QT	(1.00 QT CN )	6	0	4X

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

## 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

- Indoor Maintenance Facility......Sorbent Materials
- Outdoor New Product Storage Facility .......Sorbent Materials

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

## **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:	
DATE/TIME: PHONE:	
1. The following information is needed in the event of a POL or Hazardous Subst	tance Spill:
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other expended	
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 sq amount entering a drain or ditch must be reported to the Fort Carson, Fire Dep	
3. The DECAM POC for this report and clearance is at	
FC form 1200	

## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				

ATTACHMENT 1 BUILDING 3600

## 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 3600.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the AAFES Fuel Service Station.

## 1.3 FUNCTION OF BUILDING

The building is being used as a convenience store/service station.

## 1.4 LOCATION OF BUILDING

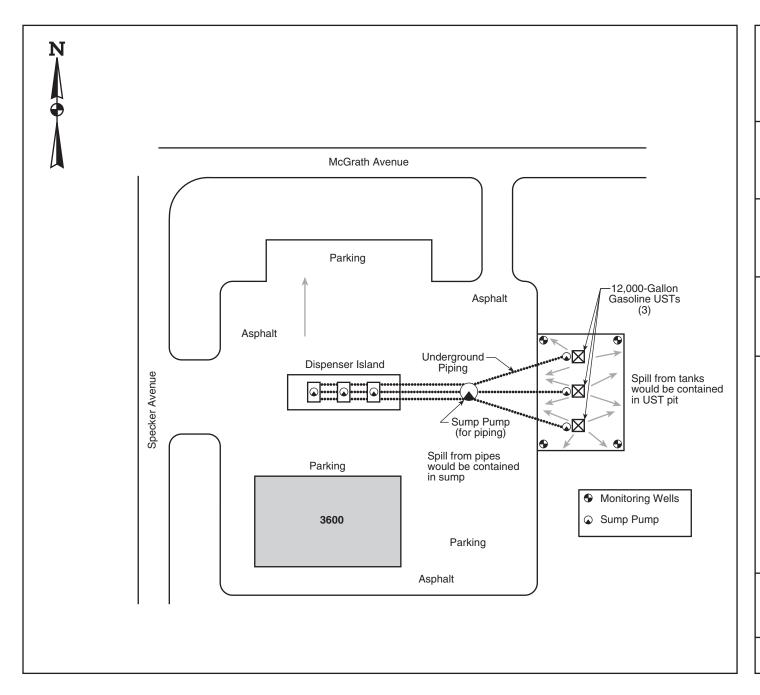
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for AAFES.

## 1.6 SITE MAPS

A site map that shows the drainage patterns around this building, as well as the locations of POL, is provided in the pages following Section 1.0.



Building 3600 AAFES Fuel Station Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



Direction of Flow

----- Underground Piping

Not to Scale

January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL are:

- Gasoline Dispensers
- Underground Piping
- Underground Storage Tanks

Table 2-1 presents a prediction of the total quantity of POL, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Hazardous substances are not stored at this building. POL stored at this building include:

Gasoline

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
UST No. 001	Gasoline	Rupture	12,000	12,000	Contained within pit
UST No. 001	Gasoline	Tank Overflow	25	25	Contained within pit
UST No. 001	Gasoline	Leakage	100	< 1	Contained within pit
UST No. 002	Gasoline	Rupture	12,000	12,000	Contained within pit
UST No. 002	Gasoline	Tank Overflow	25	25	Contained within pit
UST No. 002	Gasoline	Leakage	100	< 1	Contained within pit
UST No. 003	Gasoline	Rupture	12,000	12,000	Contained within pit
UST No. 003	Gasoline	Tank Overflow	25	25	Contained within pit
UST No. 003	Gasoline	Leakage	100	<1	Contained within pit

### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

 Underground Storage Tanks ....... Containment pit with leak detection alarm, monitoring wells, emergency shut off switches, and triple-lined plastic piping

### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL spills in this building are located in the storage area.

### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

### 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UN	NIT:		<u></u>
DA	TE/	TIME:/	PHONE:
1.	The	following information is needed in	the event of a POL or Hazardous Substance Spill:
	A.	Name and phone number of person	discovering spill
	B.	Date and Time spill occurred	
	C.	Location of Spill	
	D.	Type of material spilled	
	E.	Estimated Quantity of material spil	lled (Gallons)
	F.	Cause of spill	
	G.	Affected resources or facilities	
	H.	Did spilled material enter any Drain	ns or Ditches? Yes No
	I.		taminated soil, dry sweep and/or other clean-up materials
	J.	Description of clean-up or other rea	medial action taken
2.		•	5 gallons, or covering more than 100 square feet, and/or any be reported to the Fort Carson, Fire Department at 911.
3.	The	e DECAM POC for this report and c	clearance is at
FC	forr	n 1200	

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### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS						
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer				
1	04/01/02	Building 3600 added to Ft. Carson SPCCP.					

ATTACHMENT 1 BUILDING 3708

### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 3708.

### 1.2 CURRENT OCCUPANT

The building is currently occupied by the DECAM Entomology facility.

### 1.3 FUNCTION OF BUILDING

The building is being used for storage.

### 1.4 LOCATION OF BUILDING

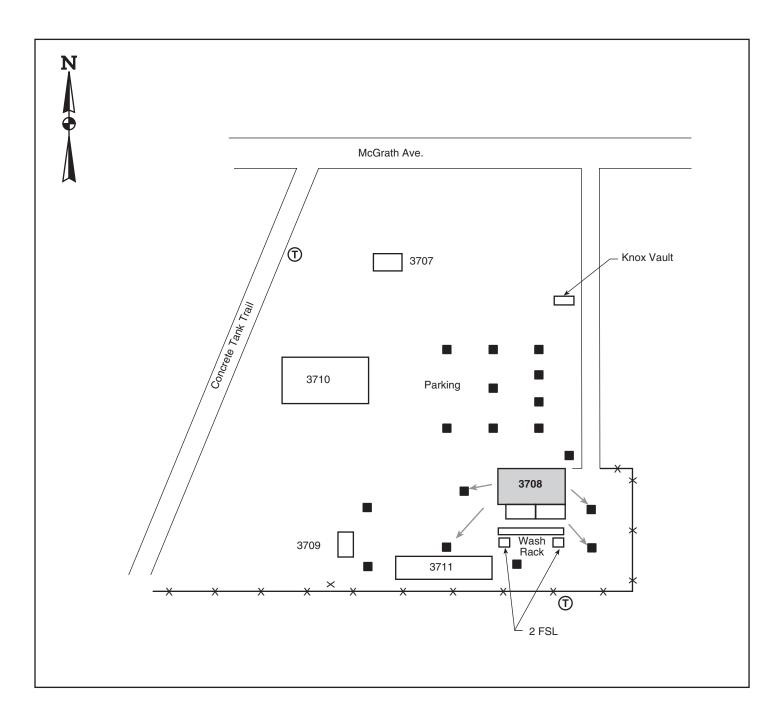
The building is located in the Cantonment Area of Fort Carson, Colorado.

### 1.5 RESPONSIBLE PERSON

The person responsible for POL spill prevention at this building is the Environmental Protection Officer (EPO) for the DECAM.

### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building are provided in the pages following Section 1.0.



Building 3708 Entomology Facility Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



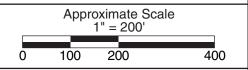
**Shaw**™ Shaw Environmental, Inc.

FSL Flammable Storage Locker

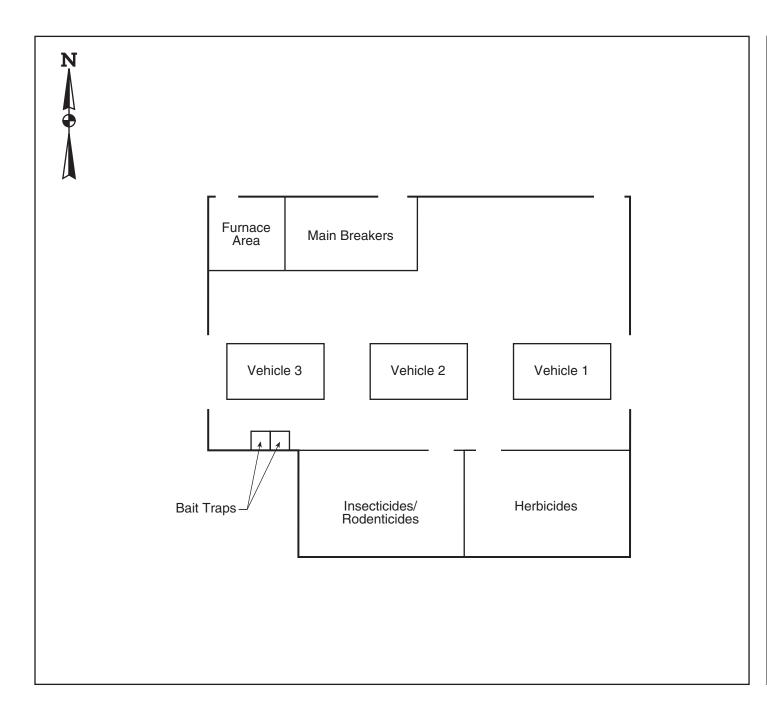
X X Fence

T Pole-Mounted Transformer

Storm Drain



January 2004



Building 3708 Entomology Facility Fort Carson, CO

Hazardous Materials Inventory

> Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

January 2004

2.0 INVENTORY

### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a spill are:

• Storage Area

Table 2-1 presents a prediction of the total quantity of hazardous substances, as well as the direction of flow, in the event of a spill.

### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

Only limited quantities of hazardous substances are stored at this building. The hazardous substances stored in this building are included in List 2-1.

### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of hazardous substances and the direction and rate of flow in the event of a spill.

### Table 2-1 Spill Predictions

Potential Spill Source Type of Substance		Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
Storage Area	Hazardous Substance	Rupture	5	5	Not Applicable
Storage Area	Hazardous Substance	Tank Overflow	< 1	< 1	Not Applicable

### LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY

## **Building 3708**

PESTICIDE INVENTORY
December 28, 2000
FORT CARSON, CO 80913

COMMON NAME	ACTIVE ING	<u>%</u>	<u>FORM</u>	<u>PACK</u>	<b>QUANTITY</b>
Altosid- XR EPA# 2724-421	Methoprene Wellmark	2.1%	BRQ	17.7/bx	00
Amdro EPA# 241-357	Hydramethy American Cyanimi	.73% id Corpora	GRN tion	1lb/bx	08
Avitrol EPA# 11649-7	4-Aminopyridine Avitrol Corporati		BT	10lb/bx	01
BP-300 ULD EPA# 499-450	Pyrethrins Whitmire Micro Ge	3.0% en	SLN	24oz/btl	26
<u>Combat</u> EPA# 1730-66	Hydramethylnon American Cyanami	1.65% id Co.	BT	bx/12	04
D-Phenothrin EPA# 901-79	3-phenoxybenzyl Airosol Company	2.0% (1-316	AER -325-2667)	12oz/cn	144
Delta Dust EPA# 432-772	Deltamethrin Agrevo	0.5% (1 case	DUS to Buckley A	1lb/ctn FB)	12
Disolv EPA# N/A	Flush-Solution Orange Power Prod	ucts Inc.	SLN	1gal/btl	02
Dursban Pro EPA# 62719-166	Chloryrifos Dow Agro Sciences	22.5% s	E.C.	lpt/btl	77
<u>Dursban T.C.</u> EPA# 62719-47	Chloryrifos Dow Elanco	40.0%	S SLN	1gl/btl	04
<u>Dursban ULV 1.5</u> EPA# 8329-20-1010	Chloryrifos Clark Mosquito Co	19.36% ntrol Prod		2.5gl/btl 530-894-2000)	09
Farm Strips EPA# 3696-121	Dichlorovinyl Texize	19.2% (1-800	Strips 0-356-7202)	24cs	140
Flushing ULV EPA# N/A	Isopropanol Clark	(1	SLN -630-894-200	1 g1/bt1	15
FUMITOXIN EPA# 5857-1 ®	Aluminimum-Phos Preston Systems In		55% T.	AB 1500g/btl	64
<u>Germicidal</u> EPA# 47371-131-7546	Chloride U.S. Chemical	2.319	% SLN	2.5gl/btl	00
<u>Insect Guard</u> EPA# 5481-338-36208	Dichlorvos Loveland Ind. Inc.	18.69 (1	% STRII -800-356-720		09

<u>Kelthane-35</u> EPA# 707-205	Dicofol Rohm & Haas	35.0%	WP	4lb/bg	44
Kromax EPA# N/A	Neutralizing-detergent Robco USA Inc.		PWR	5lb/btl	03
MaxForce EPA# 64248-11	Fipronil MaxForce Inc.	.05%	BT	72/bg	12
MaxForce (gel) EPA# 64248-14	Fipronil MaxForce Inc.	.01%	BT	capsules	12
MaxForce (gel) EPA# 64248-5	Hydramethylon MaxForce Inc.	2.15%	вт	capsules	28
NiloFresh EPA# N/A	Nilodor Inc.		GRN	12oz/btl	08
Pine Oil EPA# 34160	Lighthouse Products	60.0%	SLN	Igl/btl	01
Pro Control EPA# 499-465	Pyrethrin Whitmire Micro Gen	.535%	AER	6oz/cn	28
Pyraperm EPA# CO 880009	Pyrethrin Farefield American Corp.	.05%	PWR	7lb/pl	137
P T 230 Tri-die EPA# 499-223	Pyrethrin Whitmire Micro Gen	0.3%	AER	16oz/cn	20
P T 240 Perma-dust EPA# 499-220	Boric Acid Whitmire Micro Gen	20%	AER	16oz/cn	57
P T 515 Wasp Freeze EPA# 499-362	D-TransAllethrin Whitmire Micro Gen	0.129%	AER	14oz/cn	38
PT 565 Plus-XLO EPA# 499-310	Pyrethrins Whitmire Micro Gen	0.25%	AER	20oz/cn	105
<u>P T 270 Dursban</u> EPA# 449-147	Chlorpyrifos Whitmire Micro Gen	0.5%	AER	2lb/cn	25
Rodenticide Ditrac Cakes EPA# 12455-5	Diphacinone Bell Laboratories	.005% (1-608-2	BAIT 241-0202)(1-	10lb/bx -800-323-6628)	03
Rodenticide P C Q EPA# 12455-19AA	Diaphacinone Bell Laboratories	.005% (1-608-2	BAIT 41-0202)(1-	5lb/cn 800-323-6628)	06
<u>Rozol</u> EPA# 7173-1	Indandione Lipha Tech Inc.	.005%	BAIT	30lb/cr	06
Sevin Sprayable WSP EPA# 264-526	Carbaryl Rhone-Poulenc A G Co.	80% (1-800-	WSP 334-8577)	4/1.25lb/b	g 44

Sevin 10% (D) EPA# 148-1027	Carbaryl T.H.	10%	Dust	50lb/bg open
Super-Hydrosol EPA# N/A	Grillocin Cline Buckner	100% (1-800-845-3495)	SLN	lgl/btl 02 lqt/btl 02
<u>TEMPO-2</u> EPA# 3125-372	Cyfluthrin Miles Inc.	24.3%	E.C.	240ml/btl 43

# **HERBICIDES**

<u>Arsenal</u> EPA# 241-346	Isopropylamine American Cyanamid	28.7%	SLN	2.5gl/dm	02
Campaign EPA# 524-351	2,4-d Glyphosate Monsanto	20.0%	SLN	2.5gl/cn	125
Confront EPA# 62719-92	Triclopyr Dow Chemical	33.0%	SLN	lgl/btl	04
Cutrine-Plus EPA# 8959-10-AA	Copper AS Elemental Applied Biochemists	9.0% ( 1-800-:	SLN 558-5106)(1-36	5gI/cn 08-632-457	06 0)
<u>Gallery</u> EPA# 62719-145	Isoxaben Dow Elanco	75.0% Pre- Emergent	GRN Flowable	1lb/btl	87
Glyfos EPA# 524-445-4787	Glyphosate Monsanto	41.0%	SLN	2.5gl/cn	35
Knockdown EPA# N/A	Dimethylpoysil Precision Laboratories Inc.	100% Defoamer	SLN (1-800-32	1qt/btl 3-6280)	34
<u>Majestic Green</u> EPA# 2217-580-10107	2,4-dichlorophenoxyacetic Acid Van Diest Supply Co.	.456%	GRN	50lb/bg	183
Oust EPA# 352-401	Sulfometuron-Methyl Dupont Agriculture Ind.	75%	GRN	3lb/btl	04
Premier 90 EPA# N/A	Van Diest.	Spreader/St	SLN icker	2.5gl/btl	04
Rodeo EPA# 524-343	Glyphosate Monsanto	53.8%	SLN Waterways	2.5gl/cn	02
Round-Up EPA# 524-330	Glyphosate Monsanto	0.96%	SLN	l gl/btl	06
Round-Up Pro EPA# 524-475	Glyphosate Monsanto	41.0%	SLN	2.5gl/btl	27
<u>Sahara</u> EPA# 241-372	Imazapyr American Cyanamid Co.	7.78%	GRN W.P.	10lb/bg	44
<u>Surflan</u> EPA# 62719-113	Sulfanilamide Dow Agro Sciences	40.0%	SLN Pre-Emerger	2.5gl/btl	92

<u>Tordon 22K</u> EPA# 62719-6	Pichoram Dow Elanco	24.4%	SLN	1gl/bti	02
Trimec Classic EPA# 2217-543	Dimethtlamine PBI Gordon Corp.	25.93% (1-800-821-7925)	SLN	2.5gl/btl	10
<u>Trimec 992</u> EPA# 2217-656	2,4-D PBI Gordon Corp.	30.56% (1-800-821-7925)(1-913-38	SLN 8-2737)(Sc	2.5gl/btl ott Bennife	42 r)

### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

Storage Area......Sorbent Materials

### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

### 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:
DATE/TIME: PHONE:
1. The following information is needed in the event of a POL or Hazardous Substance Spill:
A. Name and phone number of person discovering spill
B. Date and Time spill occurred/
C. Location of Spill
D. Type of material spilled
E. Estimated Quantity of material spilled (Gallons)
F. Cause of spill
G. Affected resources or facilities
H. Did spilled material enter any Drains or Ditches? Yes No
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended
J. Description of clean-up or other remedial action taken
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or any amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.
3. The DECAM POC for this report and clearance is at
FC form 1200

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### **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS					
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer		

### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Buildings 3868 and 3909.

### 1.2 CURRENT OCCUPANT

The buildings are currently occupied by the Sewage Treatment Plant.

### 1.3 FUNCTION OF BUILDING

The buildings are being used for wastewater treatment.

### 1.4 LOCATION OF BUILDING

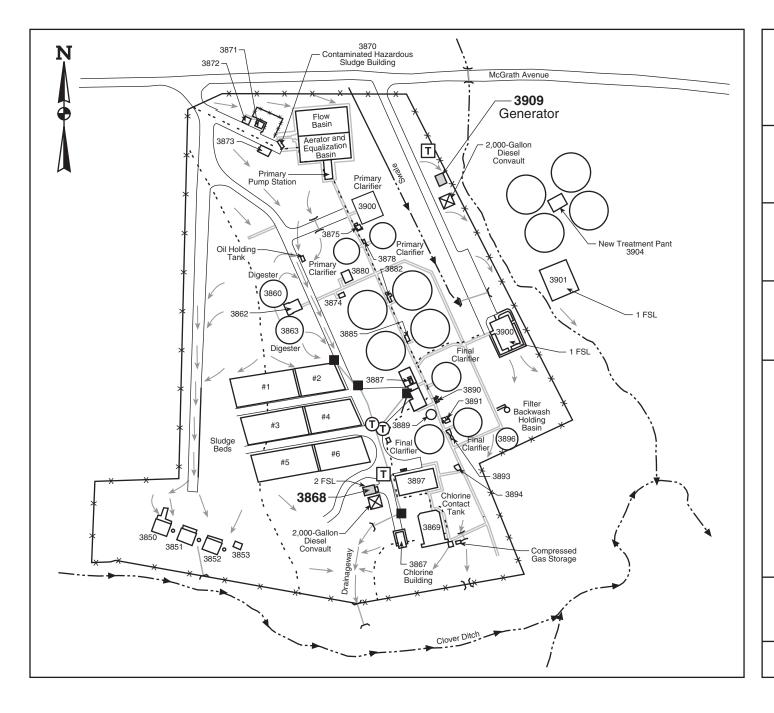
The buildings are located in the Cantonment Area of Fort Carson, Colorado.

### 1.5 RESPONSIBLE PERSON

The person responsible for POL spill prevention at these buildings is the Environmental Protection Officer (EPO) for the Sewage Treatment Plant.

### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around these buildings, as well as the locations of POL storage in and around the buildings, are provided in the pages following Section 1.0.



Buildings 3868 and 3909 Sewage Treatment Plant Fort Carson, CO

## Hazardous Materials Inventory

## Storage Location Map



FSL Flammable Storage Locker

X X Fence

 $\boxtimes$ Tank Location

Pole-Mounted Transformer

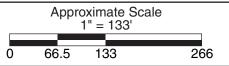
Pad-Mounted Transformer

Storm Drain

--- Drainage Ditch/Culvert

Storm Sewer Line

Direction of Flow



January 2004

2.0 INVENTORY

### 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at these buildings that could potentially produce a significant spill of POL are:

Aboveground Storage Tanks

Table 2-1 presents a prediction of the total quantity of POL, as well as the direction of flow, in the event of a major spill.

### 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

No hazardous substances are stored at the buildings. POL stored at these buildings includes:

Diesel Fuel

### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

### Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Diesel	Rupture	2,000	2,000	Southeast
AST No. 001	Diesel	Tank Overflow	25	25	Southeast
AST No. 001	Diesel	Leakage	100	< 1	Southeast
AST No. 002	Diesel	Rupture	2,000	2,000	Southeast
AST No. 002	Diesel	Tank Overflow	25	25	Southeast
AST No. 002	Diesel	Leakage	100	< 1	Southeast

### 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

### 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

### 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

### **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

### **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UN	UNIT:							
DA	TE/	TIME: PHONE:						
1.	The	following information is needed in the event of a POL or Hazardous Substance Spill:						
	A.	Name and phone number of person discovering spill						
	B.	Date and Time spill occurred/						
	C.	Location of Spill						
	D.	Type of material spilled						
	E.	Estimated Quantity of material spilled (Gallons)						
	F.	Cause of spill						
	G.	Affected resources or facilities						
	Н.	Did spilled material enter any Drains or Ditches? Yes No						
	I.	Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended						
	J.	Description of clean-up or other remedial action taken						
2.		W FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or any ount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.						
3.	The	e DECAM POC for this report and clearance is at						
FC	fori	n 1200						

## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS							
Change Number	Date	Signature of Certified Professional Engineer						

ATTACHMENT 1 BUILDING 6110

## 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 6110.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the PX.

## 1.3 FUNCTION OF BUILDING

The building is being used as a PX.

## 1.4 LOCATION OF BUILDING

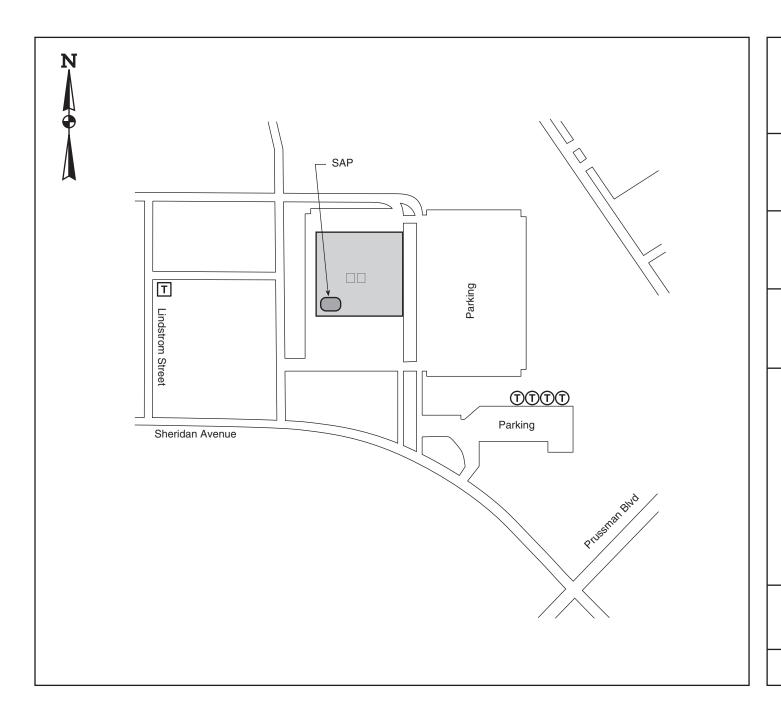
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for the PX.

## 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided following Section 1.0.



Building 6110 PX Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



- Pole-Mounted TransformerPad-Mounted Transformer
  - Satellite Accumulation Point

January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

Photo Lab Satellite Accumulation Point

Table 2-1 presents a prediction of the total quantity of hazardous substance, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

POL is not stored at this building. Small quantities of spent developing solutions containing silver are stored in the SAP.

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of hazardous substance and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
Satellite Accumulation Point	Hazardous Substance	Rupture	2	2	Not Applicable
Satellite Accumulation Point	Hazardous Substance	Leakage	1	< 1	Not Applicable

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable waster course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

Satellite Accumulation Point......Sorbent Materials

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage room.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

## **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UN	NIT:	
DA	ATE/	TIME: PHONE:
1.	The	following information is needed in the event of a POL or Hazardous Substance Spill:
	A.	Name and phone number of person discovering spill
	B.	Date and Time spill occurred/
	C.	Location of Spill
	D.	Type of material spilled
	E.	Estimated Quantity of material spilled (Gallons)
	F.	Cause of spill
	G.	Affected resources or facilities
	H.	Did spilled material enter any Drains or Ditches? Yes No
	I.	Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended
	J.	Description of clean-up or other remedial action taken
2.		W FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or any ount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.
3.	Th	e DECAM POC for this report and clearance is at
FC	for	n 1200

## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS							
Change Number	Date	Signature of Certified Professional Engineer						

ATTACHMENT 1 BUILDING 6290

## 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 6290.

## 1.2 CURRENT OCCUPANT

The building is currently occupied by the Hospital Heating Plant.

## 1.3 FUNCTION OF BUILDING

The building is being used as a heating plant.

## 1.4 LOCATION OF BUILDING

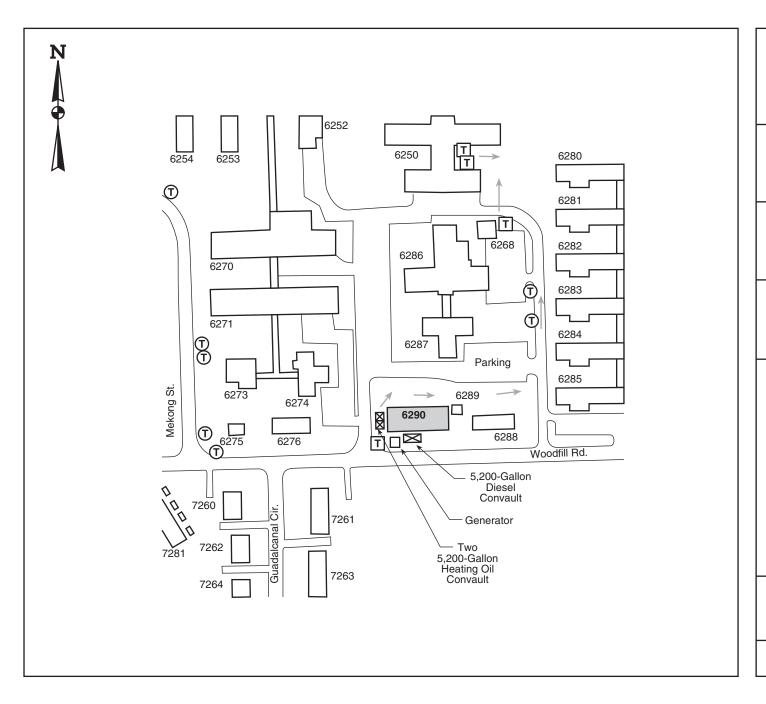
The building is located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL spill prevention at this building is the Environmental Protection Officer (EPO) for the Hospital Heating Plant.

## 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL storage in and around the building, are provided in the pages following Section 1.0.



Building 6290 Heat Plant Building Fort Carson, CO

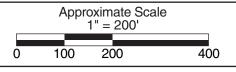
# Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

- - Pole-Mounted Transformer
- Pad-Mounted Transformer
  - Direction of Flow



January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

• Aboveground Storage Tank

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

No hazardous substances are stored at the building. POL stored at this building includes:

- Fuel Oil
- Diesel

## 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

## Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Diesel	Rupture	5,200	5,200	East
AST No. 001	Diesel	Tank Overflow	25	25	East
AST No. 001	Diesel	Leakage	100	<1	East
AST No. 002	Fuel Oil	Rupture	5,200	5,200	East
AST No. 002	Fuel Oil	Tank Overflow	25	25	East
AST No. 002	Fuel Oil	Leakage	100	<1	East
AST No. 003	Fuel Oil	Rupture	5,200	5,200	East
AST No. 003	Fuel Oil	Tank Overflow	25	25	East
AST No. 003	Fuel Oil	Leakage	100	<1	East

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

Aboveground Storage Tank......Convault

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

## 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

## **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



## **SPILL REPORT FORM**

UNIT:	
DATE/TIME: PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materia expended	ıls
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	any
3. The DECAM POC for this report and clearance is at	_
FC form 1200	

## **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

	RECORD OF CHANGES/AMENDMENTS							
Change Number	Date	Signature of Certified Professional Engineer						

#### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 7426 and Building 7428.

## 1.2 CURRENT OCCUPANT

The buildings are currently occupied by the 10th Special Forces Group.

## 1.3 FUNCTION OF BUILDING

The buildings are being used for vehicle maintenance.

## 1.4 LOCATION OF BUILDING

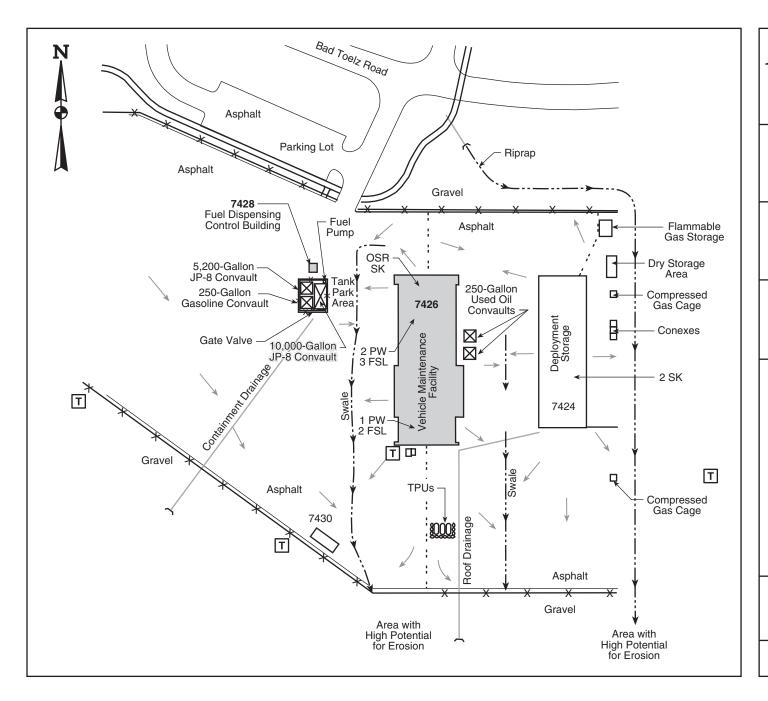
The buildings are located in the Cantonment Area of Fort Carson, Colorado.

## 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at these buildings is the Environmental Protection Officer (EPO) for the 10th Special Forces Group.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Buildings 7426 and 7428 10th Special Forces Complex Motor Pool Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

OSR Oil Storage Rack

PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit

X X Fence

T Pole-Mounted Transformer

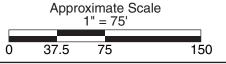
T Pad-Mounted Transformer

--- Drainage Ditch/Culvert

Storm Sewer Line

Direction of Flow

Sandbag Containment



January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Indoor Maintenance Facility

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

The hazardous substances stored at these buildings are presented in List 2-1. POL stored at this building include:

- Used Oil
- JP 8

#### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	JP - 8	Rupture	5,200	5,200	South
AST No. 001	JP - 8	Tank Overflow	25	25	South
AST No. 001	JP - 8	Leakage	100	<1	South
AST No. 002	JP - 8	Rupture	10,000	10,000	South
AST No. 002	JP - 8	Tank Overflow	25	25	South
AST No. 002	JP - 8	Leakage	100	<1	South
AST No. 003	Used Oil	Rupture	250	250	South
AST No. 003	Used Oil	Tank Overflow	25	25	South
AST No. 003	Used Oil	Leakage	25	<1	South
AST No. 004	Used Oil	Rupture	250	250	South
AST No. 004	Used Oil	Tank Overflow	25	25	South
AST No. 004	Used Oil	Leakage	25	<1	South
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	<1	Not Applicable
Storage Areas	POL	Rupture	55	55	Not Applicable
Storage Areas	POL	Leakage	1	<1	Not Applicable
Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Storage Areas	Hazardous Substance	Leakage	1	< 1	Not Applicable

## LIST 2-1 HAZARDOUS SUBSTANCES INVENTORY



# Fort Carson GSC 10TH SFG Activity Authorized Use List



Building # 7426

NSN / MCN		N / MCN Nomenclature		MCN Nomenclature U/I		Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001178791	LUBRICATING OIL,ENG	PT	(1.00 PT CN )	2	0	36		
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	1	0	36		
681	002010906	ALCOHOL, DENATURED	PT	(1.00 PT CN )	2	0	36		
915	002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	6	0	33		
915	002617899	PENETRATING OIL VV-P-	PT	(1.00 PT CN )	2	0	36		
801	005825382	ENAMEL, FLAT BLACK	PT	(1.00 PT CN )	2	0	4X		
801	008489272	ENAMEL, LUSTERLESS OD	PT	(1.00 PT CN )	2	0	4X		
803	008490071	GASKET CEMENT	TU	(1.50 OZ TU )	3	0	4X		
803	008893534	TAPE.ANTISEIZING	EA	(1.00 OZ SP )	1	0	4X		
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	4	0	36		
79.	0GL00027	DETERGENT GENERAL	EA	(16.0 OZ BT )	3	0	2E		
685	00GL00036	FUEL ENGINE PRIMER	CN	(11.0 OZ CN )	4	0	36		
915	011029455	BRAKE FLUID.AUTOMOT	GL	(1.00 GL CN )	1	0	36		
915	011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	1	0	36		
915	011977693	GREASE,AUTOMOTIVE A	CA	(14.0 OZ CT )	20	0	36		
801	013323743	ENAMEL.SEMI-GLOSS BEIGE	РТ	(1.00 PT CN )	2	0	4X		
303	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	2	0	4X		
793	01GL00014	CLEANING COMPOUND	EA	(1.00 GL CO )	2	0	2E		
793	01GL00028	GLASS CLEANER	ВТ	(16.0 OZ BT )	3	0	2E		



# Fort Carson 3-10 SPECIAL FORCES GROUP Activity Authorized Use List



Building # 7426

NS	N/MCN	Nomenclature		/ MCN Nomenclature		/ MCN Nomenclature		Unit Of Use	GSL Qty	UBL Qty	Supply Class
915	001178791	LUBRICATING OIL,ENG	PΤ	(1.00 PT CN )	6	0	36				
915	001866668	LUBOIL MIL-L-2104 OE/	CN	(5.00 GL CN )	5	0	36				
915	002526383	HYDRAULIC FLUID ACFT/	QT	(1.00 QT CN )	2	0	33				
793	002691272	ABSORBENT MATERIAL.	BG	(50.0 LB BG )	6	0	2E				
681	005437415	ALCOHOL DENATURED GR	GL	(1.00 GL CN )	1	0	36				
685	008350484	DEICING DEFROSTING 14	CN	(16.0 OZ CN )	2	0	36				
804	009023871	ADHESIVE	кт	(1.00 EA TU )	6	0	2B				
685	009262275	CLEANING COMPOUND WIN	PT	(1.00 PT BT )	12	0	36				
685	009739091	PENETRATING FLUID	CN	(12.0 OZ CN )	1	0	36				
681	00GL00007	DISTILLED-DEIONIZED	EA	(1.00 GL BT )	1	0	36				
91	10355392	LUBRICATING OIL,GEA	QΤ	(1.00 QT CN )	24	0	36				
915	010355393	LUBRICATING OIL,GEA	CN	(5.00 GL CN )	3	0	36				
915	011029455	BRAKE FLUID,AUTOMOT	GL	(1.00 GL CN )	1	0	36				
915	011977689	GREASE,AUTOMOTIVE A	CN	(6.50 LB CN )	2	0	36				
915	011977693	GREASE.AUTOMOTIVE A	CA	(14.0 OZ CT )	6	0	36				
915	013534799	HYDRAULIC FLUID,AUT	QT	(1.00 QT CN )	12	0	36				
915	014386076	LUBRICATING OIL,ENG	QΤ	(1.00 QT CN )	24	0	36				
915	014386079	LUBRICATING OIL,ENG	DR	(55.0 GL DR )	1	0	36				
915	014386082	LUBRICATING OIL,ENG	CN	(5.00 GL CN )	2	0	36				
685	014413218	ANTIFREEZE	GL	(1.00 GL CN )	6	0	36				
685	014413221	ANTIFREEZE	СО	(5.00 GL CO )	3	0	36				
685	014413223	ANTIFREEZE	DR	(55.0 GL DR )	1	0	36				
803	01GL00006	CORROSION PREVENTIVE WD40	EA	(9.00 OZ CN )	2	0	4X				

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

- Aboveground Storage Tanks
   Convault
- Indoor Maintenance Facility......Sorbent Materials

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

## 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

# 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

# **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UNIT:	
DATE/TIME: PHONE:	
1. The following information is needed in the event of a POL or Hazardous Substance Spill:	
A. Name and phone number of person discovering spill	
B. Date and Time spill occurred/	
C. Location of Spill	
D. Type of material spilled	
E. Estimated Quantity of material spilled (Gallons)	
F. Cause of spill	
G. Affected resources or facilities	
H. Did spilled material enter any Drains or Ditches? Yes No	
I. Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up material expended	ls
J. Description of clean-up or other remedial action taken	
2. IAW FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or amount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.	any
3. The DECAM POC for this report and clearance is at	-
FC form 1200	

# **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS				
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer	

ATTACHMENT 1 BUILDING 7500

### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 7500.

### 1.2 CURRENT OCCUPANT

The building is currently occupied by Evans Hospital.

## 1.3 FUNCTION OF BUILDING

The building is being used as a hospital.

### 1.4 LOCATION OF BUILDING

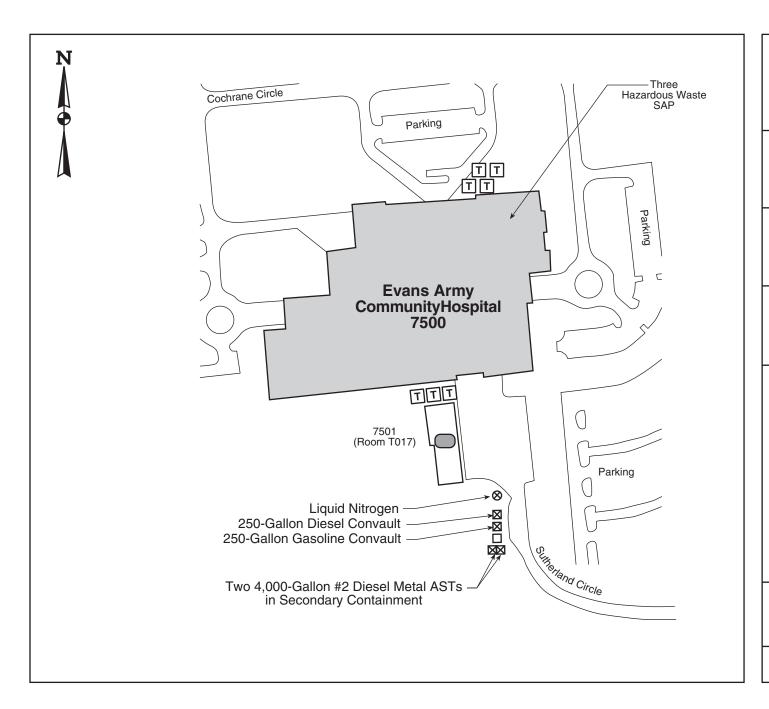
The building is located in the Cantonment Area of Fort Carson, Colorado.

### 1.5 RESPONSIBLE PERSON

The person responsible for POL and hazardous substance spill prevention at this building is the Environmental Protection Officer (EPO) for Evans Hospital.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL and hazardous substance storage in and around the building, are provided in the pages following Section 1.0.



Building 7500 Evans Army Community Hospital Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map

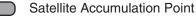


**Shaw**™ Shaw Environmental, Inc.

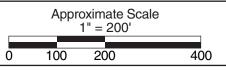
Tank Location



Pad-Mounted Transformer



Room 213 Room 1586 Warehouse



January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tanks
- Storage Areas
- Satellite Accumulation Point

Table 2-1 presents a prediction of the total quantity of POL or hazardous substance, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

No significant quantities of hazardous substances are stored at this building. POL stored at this building include:

- Diesel
- Gasoline
- Hazardous Waste

### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL or hazardous substance and the direction and rate of flow from each source in the event of a major spill.

# Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Diesel/Gasoline	Rupture	250/250	250/250	North
AST No. 001	Diesel/Gasoline	Overflow	25/25	25/25	North
AST No. 001	Diesel/Gasoline	Leakage	25/25	< 1/ < 1	North
AST No. 002	Diesel	Rupture	4,000	4,000	North
AST No. 002	Diesel	Overflow	25	25	North
AST No. 002	Diesel	Leakage	100	<1	North
AST No. 003	Diesel	Rupture	4,000	4,000	North
AST No. 003	Diesel	Overflow	25	25	North
AST No. 003	Diesel	Leakage	100	<1	North
Storage Areas	Hazardous Substance	Rupture	5	5	Not Applicable
Storage Areas	Hazardous Substance	Leakage	1	<1	Not Applicable
Satellite Accumulation Point	Hazardous Waste	Rupture	55 ea.	55 ea.	Not Applicable
Satellite Accumulation Point	Hazardous Waste	Leakage	1	<1	Not Applicable

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

# 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

# **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UN	NT:	
DA	ATE/	TIME: PHONE:
1.	The	following information is needed in the event of a POL or Hazardous Substance Spill:
	A.	Name and phone number of person discovering spill
	B.	Date and Time spill occurred/
	C.	Location of Spill
	D.	Type of material spilled
	E.	Estimated Quantity of material spilled (Gallons)
	F.	Cause of spill
	G.	Affected resources or facilities
	H.	Did spilled material enter any Drains or Ditches? Yes No
	I.	Estimated quantity and type of contaminated soil, dry sweep and/or other clean-up materials expended
	J.	Description of clean-up or other remedial action taken
2.		W FC 200-1 all spills of more than 5 gallons, or covering more than 100 square feet, and/or any ount entering a drain or ditch must be reported to the Fort Carson, Fire Department at 911.
3.	The	e DECAM POC for this report and clearance is at
FC	fori	m 1200

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# **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS				
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer	

ATTACHMENT 1 BUILDING 7804

### 1.1 BUILDING NUMBER

The Fort Carson Colorado building number for which this plan has been developed is Building 7804.

### 1.2 CURRENT OCCUPANT

The building is currently occupied by the Golf Course Maintenance Facility.

## 1.3 FUNCTION OF BUILDING

The building is being used for golf course maintenance.

### 1.4 LOCATION OF BUILDING

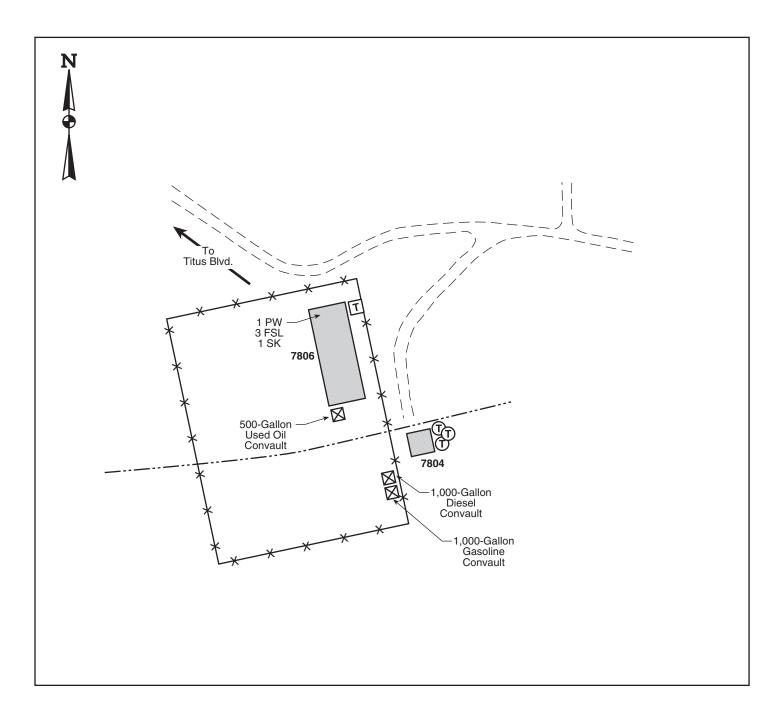
The building is located in the Cantonment Area of Fort Carson, Colorado.

### 1.5 RESPONSIBLE PERSON

The person responsible for POL spill prevention at this building is the Environmental Protection Officer (EPO) for the Golf Course Maintenance Facility.

#### 1.6 SITE MAPS

Site maps that show the drainage patterns in and around this building, as well as the locations of POL storage in and around the building, are provided in the pages following Section 1.0.



Building 7804/7806 Golf Course Maintenance Fort Carson, CO

# Hazardous Materials Inventory

# Storage Location Map



**Shaw**™ Shaw Environmental, Inc.

PW Parts Washer

FSL Flammable Storage Locker

SK Spill Kit

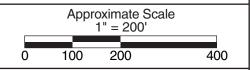
X X Fence

Pole-Mounted Transformer

Pad-Mounted Transformer

Storm Drain

---- Drainage Ditch/Culvert



January 2004

2.0 INVENTORY

## 2.1 FACILITY INVENTORY

The storage, handling, and transfer facilities at this building that could potentially produce a significant spill of POL or hazardous substances are:

- Aboveground Storage Tank
- Indoor Maintenance Facility
- Storage Areas

Table 2-1 presents a prediction of the total quantity of POL, as well as the direction of flow, in the event of a major spill.

## 2.2 POL AND HAZARDOUS SUBSTANCE INVENTORY

No hazardous substances are stored at this building. POL stored at this building include:

- Diesel
- Gasoline

### 2.3 SPILL PREDICTIONS

Table 2-1 presents predictions of the total quantity of POL and the direction and rate of flow from each source in the event of a major spill.

# Table 2-1 Spill Predictions

Potential Spill Source	Type of Substance	Major Type of Failure	Total Quantity of Spill (gallons)	Rate of Flow (gallons/minute)	Direction of Flow
AST No. 001	Diesel/Gasoline	Rupture	1,000/1,000	1,000	Southeast
AST No. 001	Diesel/Gasoline	Tank Overflow	25/25	25/25	Southeast
AST No. 001	Diesel/Gasoline	Leakage	100/100	< 1	Southeast
AST No. 002	Used Oil	Rupture	500	500	Southeast
AST No. 002	Used Oil	Tank Overflow	25	25	Southeast
AST No. 002	Used Oil	Leakage	1001	< 1	Southeast
Maintenance Facility	POL	Rupture	5	5	Not Applicable
Maintenance Facility	POL	Leakage	1	<1	Not Applicable
Parts Washers	Hazardous Substances	Rupture	35	35	Not Applicable
Parts Washers	Hazardous Substances	Leakage	5	< 1	Not Applicable
Storage Areas	POL	Rupture	5	5	Not Applicable
Storage Areas	POL	Leakage	5	<1	Not Applicable

## 3.0 SPILL CONTROL STRUCTURES, EQUIPMENT, AND COUNTERMEASURES

#### 3.1 SPILL CONTROL STRUCTURES

At a minimum, each of the storage, handling, and transfer facilities in this building (see Section 2.1) must have appropriate containment and/or diversionary structures or equipment to prevent a spill of hazardous substances from reaching a navigable water course. The containment and/or diversionary structures or equipment provided to prevent migration of spills from the buildings potential spill sources are:

- Aboveground Storage Tank......Convault
- Indoor Maintenance Facility......Sorbent Materials

## 3.2 SPILL CONTROL EQUIPMENT

The spill control equipment and materials used to respond to POL and hazardous substance spills in this building are located in the storage area.

### 3.3 SPILL COUNTERMEASURES

In the event of a POL spill of less than 5 gallons (18.9 liters), building personnel will:

- Stop any additional POL spillage from the spill source.
- Immediately clean up the spill using the materials and equipment stored at the building for spill diversion and containment.
- If a POL spill is near a drain or drainage ditch, building personnel should prevent the spill from entering the drain or drainage ditch prior to cleaning up the spill.

In the event of a POL spill of greater than 5 gallons (18.9 liters), building personnel will:

- Immediately call the Installation Fire Department at 911.
- Stop any additional POL spillage from the spill source.
- Prevent the POL spill from entering any drain or drainage ditch by using the materials and equipment stored at the building for spill diversion and containment.
- Stand-by for the Fire Department if there is a fire hazard from the POL spill or if the health and safety of personnel is endangered. Do not attempt to divert or contain the POL spill if hazardous environments are present.

In the event of a spill of a hazardous substance, building personnel will:

- Immediately consult the MSDS sheets at the spill location for the substance spilled and follow the spill cleanup directions in the MSDS.
- Immediately call the Installation Fire Department at 911 if the materials and equipment specified by the MSDS for spill cleanup are not available or if there are any questions or confusion concerning fire hazards, personnel health and safety, or appropriate use of spill cleanup materials and equipment.
- Stop any additional POL spillage from the spill source.
- Prevent the spill from entering any drain or drainage ditch by using the materials and equipment specified in the MSDS.
- Immediately call the Installation Fire Department at 911 if the hazardous substance spill enters a drain or drainage ditch.

4.0 DEFICIENCIES

# 4.1 SPILL CONTAINMENT DEFICIENCIES

No spill containment deficiencies were identified at the building's storage, handling, and transfer facilities.

5.0 SPILL HISTORY

## **5.1 SPILL HISTORY**

No spills have been reported at this facility during the past 12 months.

# **5.2 SPILL REPORT**

If the storage, handling, or transfer facilities associated with the building experience a reportable spill event, the following form should be completed and attached to this plan.



# **SPILL REPORT FORM**

UNI	T:			
DAT	ΓΕ/Ί	ГІМЕ:		PHONE:
1. T	he:	following in	nformation is need	ded in the event of a POL or Hazardous Substance Spill:
	A.	Name and j	phone number of j	person discovering spill
]	B.	Date and T	ime spill occurred	I/
(	C.	Location of	f Spill	
]	D.	Type of ma	iterial spilled	
]	E.	Estimated (	Quantity of materi	ial spilled (Gallons)
]	F.	Cause of sp	oill	
(	G.	Affected re	sources or facilities	es
]	H.	Did spilled	material enter any	y Drains or Ditches? Yes No
]				of contaminated soil, dry sweep and/or other clean-up materials
	J.	Description	of clean-up or ot	ther remedial action taken
				than 5 gallons, or covering more than 100 square feet, and/or any must be reported to the Fort Carson, Fire Department at 911.
3.	The	DECAM F	OC for this report	t and clearance is at
EC f	Forn	1200		

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# **6.1 GENERAL**

Any changes or amendments to this plan shall be recorded on the attached form and maintained as a portion of this plan.

RECORD OF CHANGES/AMENDMENTS			
Change Number	Date	Change/Amendment Description	Signature of Certified Professional Engineer